

FIG. 1B

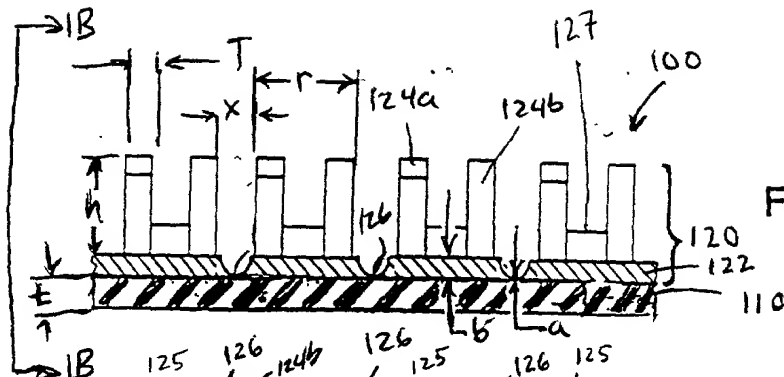


FIG. 1

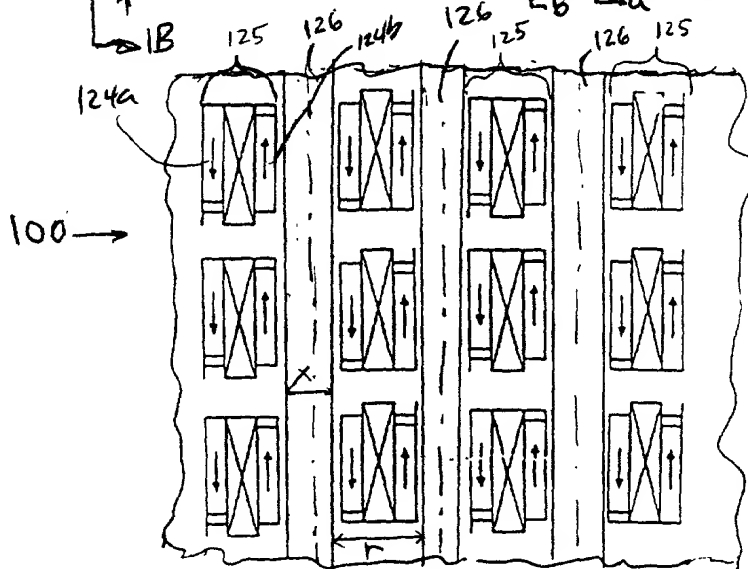


FIG. 1A

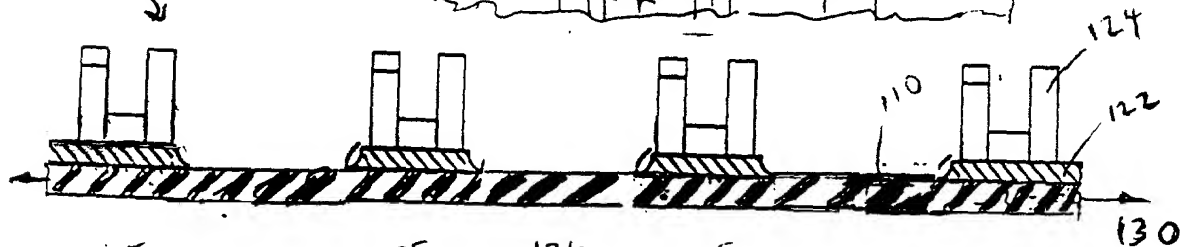


FIG. 2

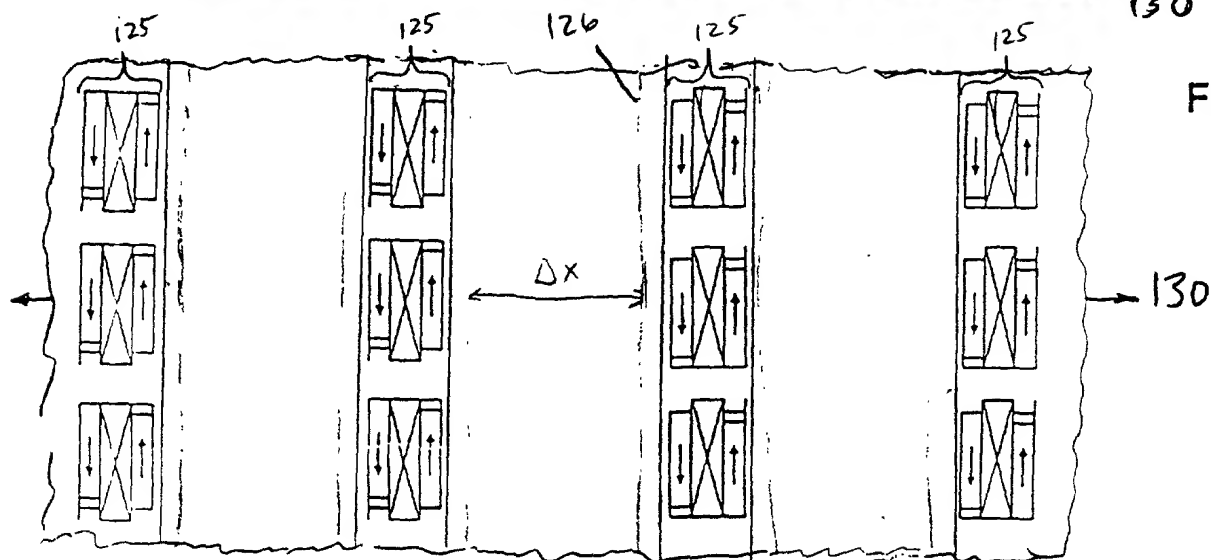


FIG. 2A

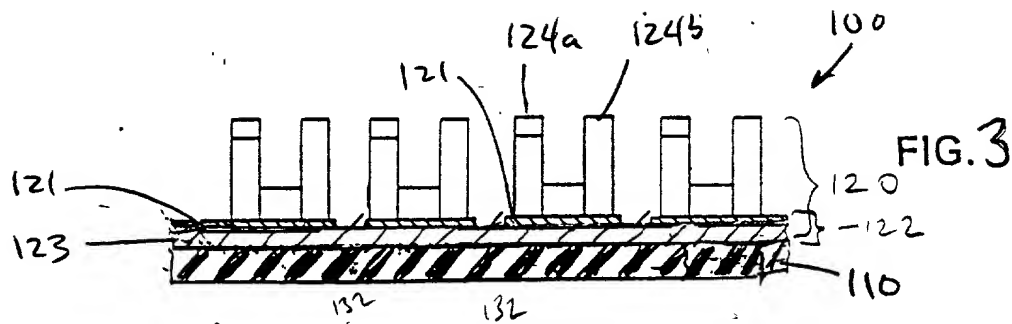


FIG. 3

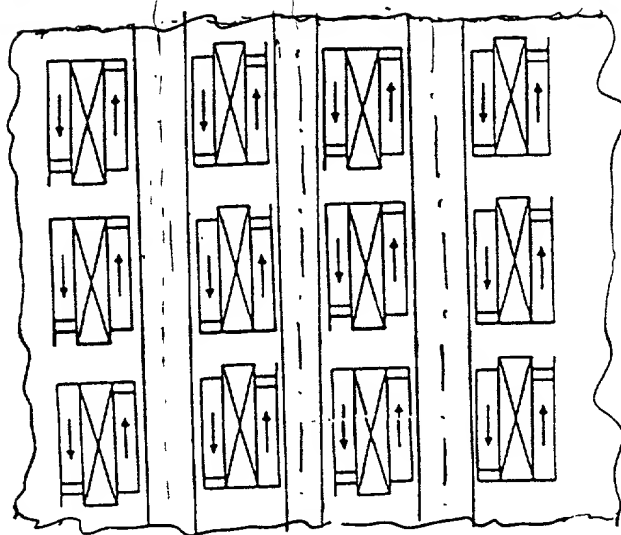


FIG. 3A

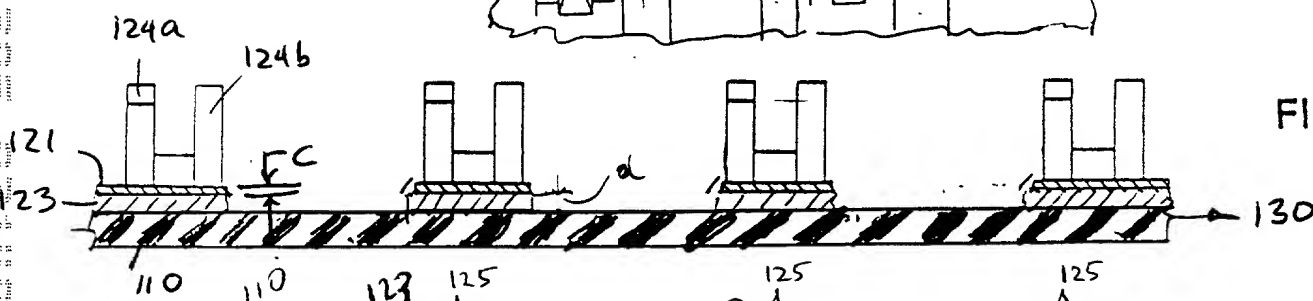


FIG. 4

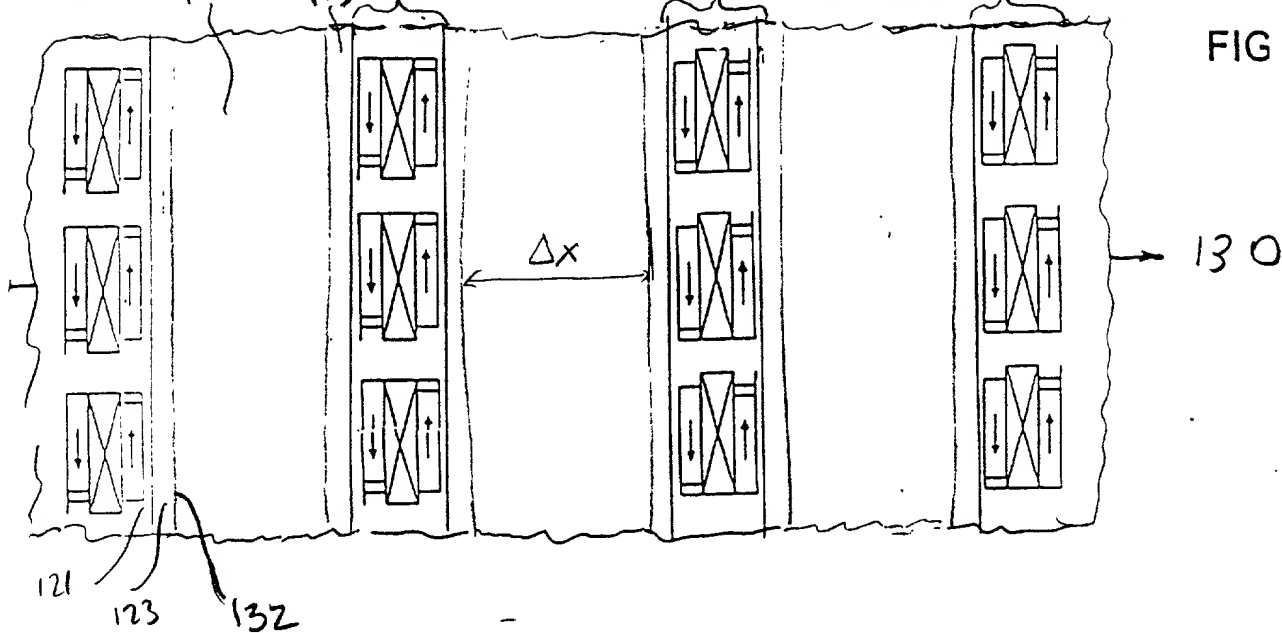


FIG. 4A

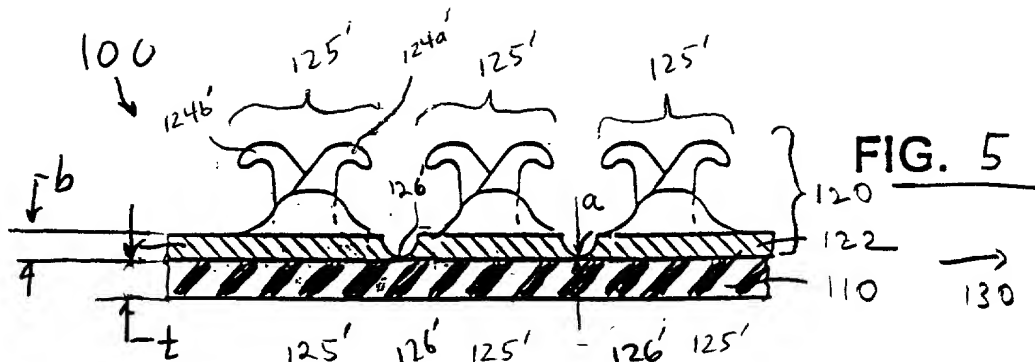


FIG. 5

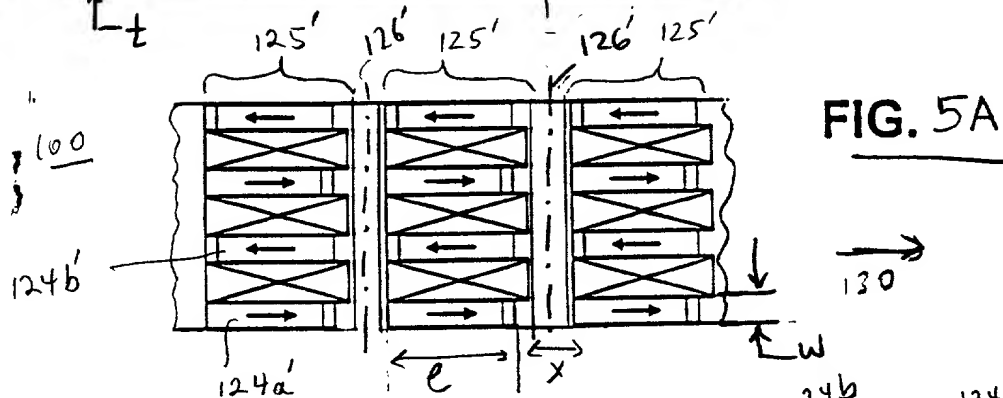


FIG. 5A

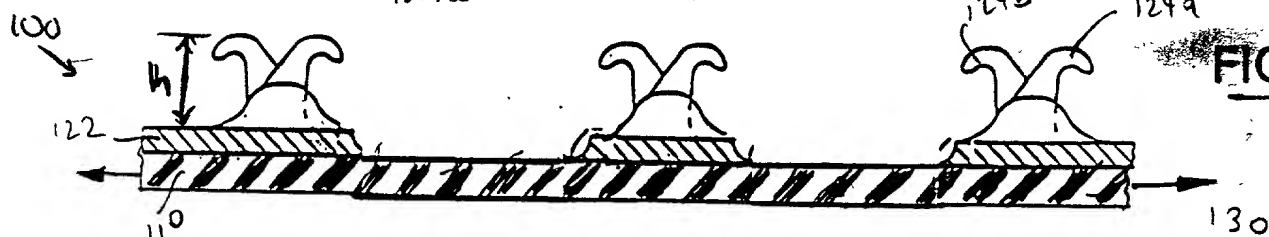


FIG. 6

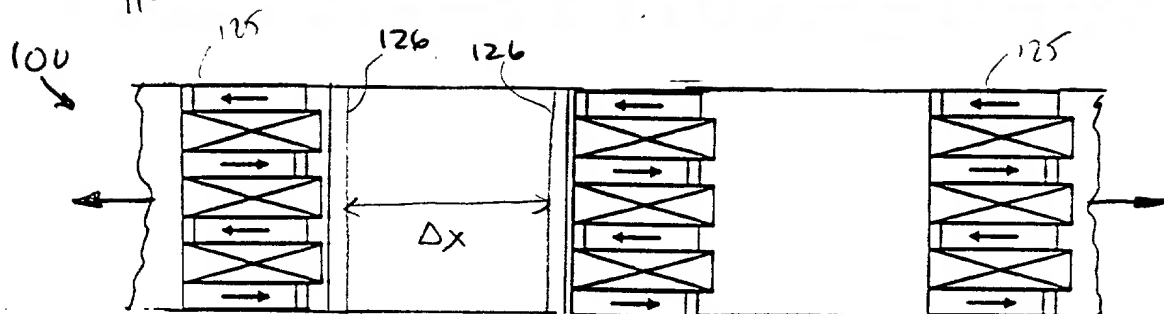


FIG. 6A

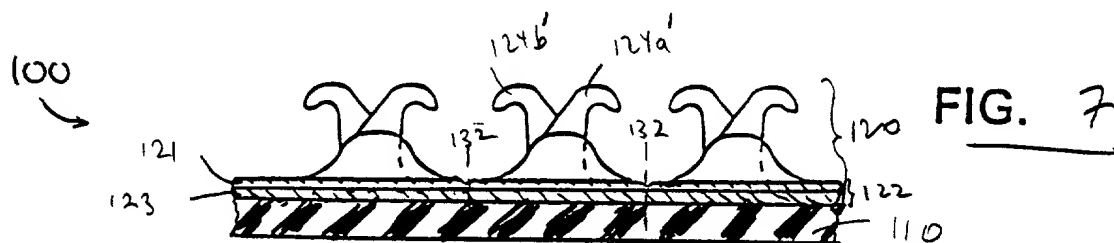


FIG. 7

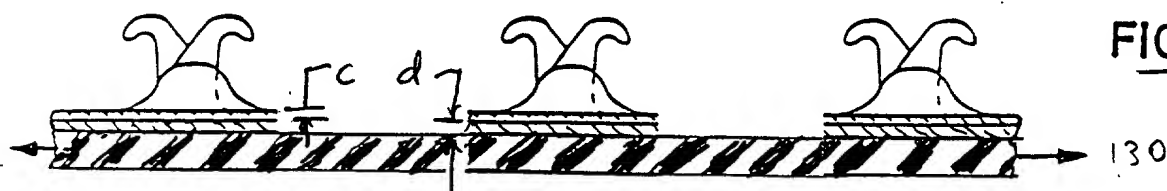


FIG. 7A

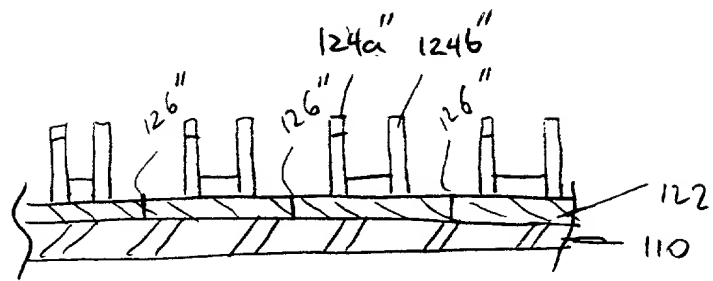


FIG. 8

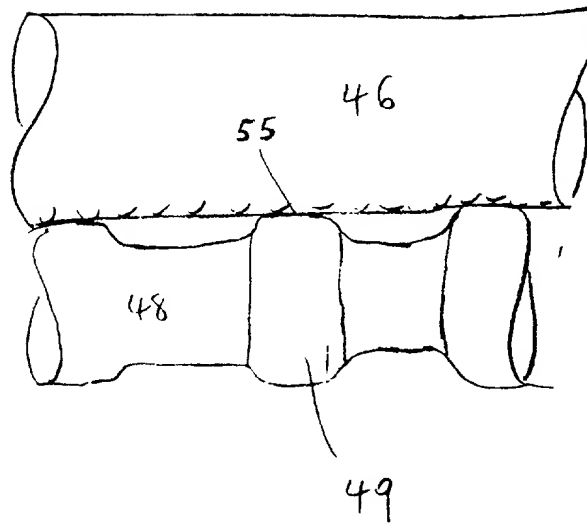


FIG. 9A



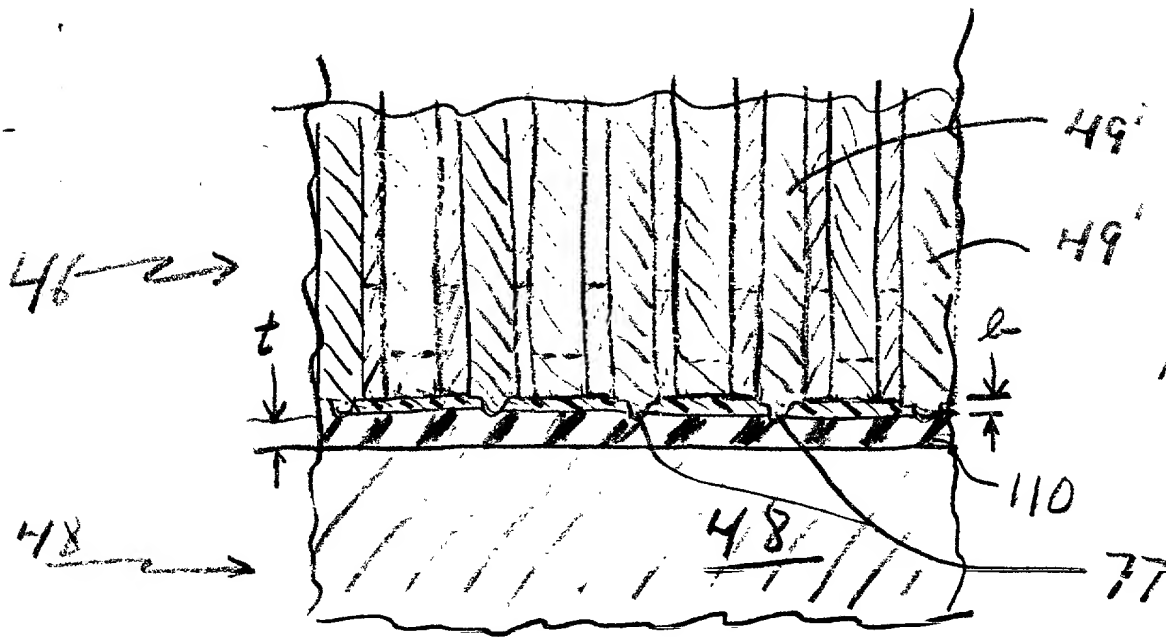


Fig 9c

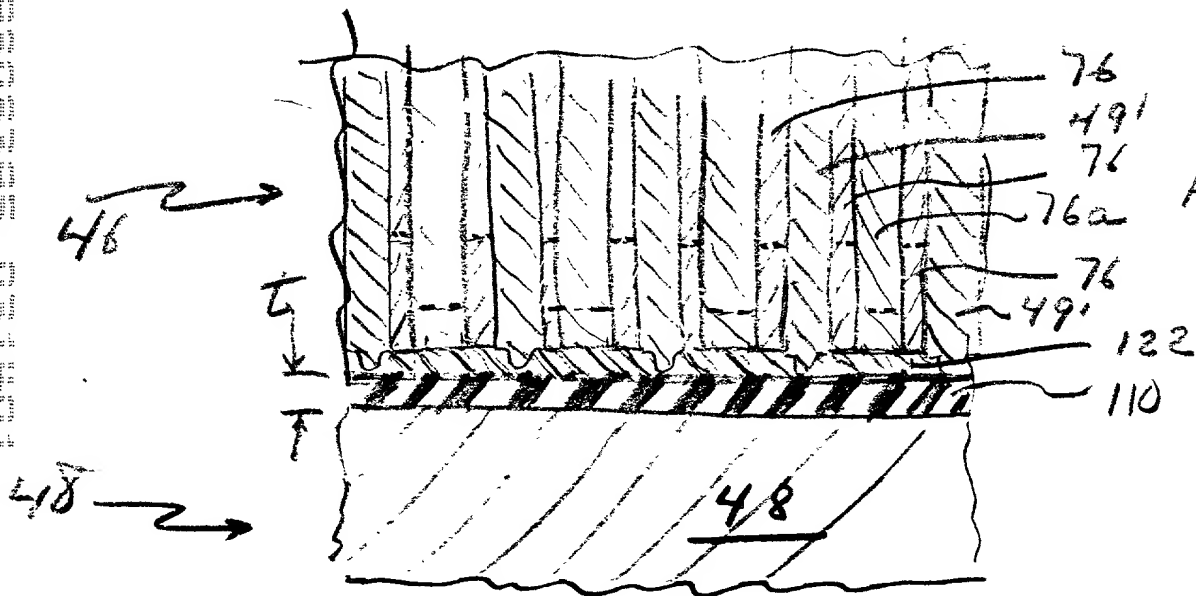


Fig 9b

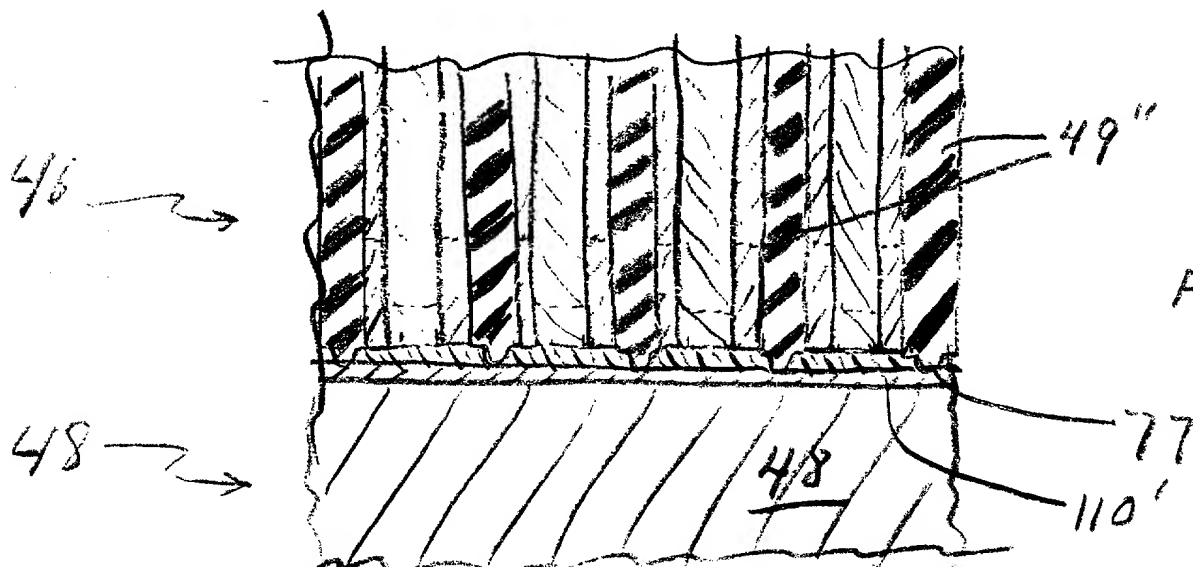


Fig 9d

FIG. 9a is a schematic diagram of a first embodiment of a device for detecting a fault in a system. The device includes a plurality of sensors 40 and a controller 42. The sensors 40 are connected to the controller 42 and are configured to detect a fault in the system. The controller 42 is configured to process the data received from the sensors 40 and to generate a fault signal when a fault is detected. The device is configured to be used in a system where a fault in the system is to be detected.

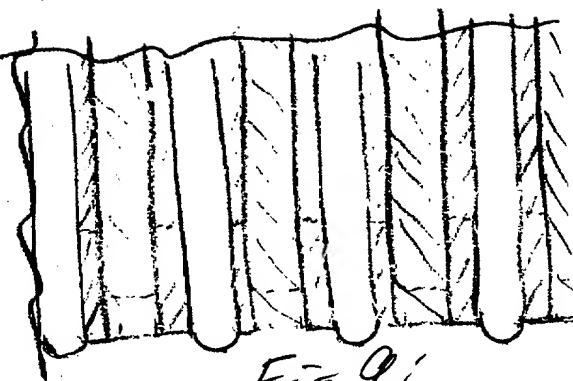


Fig 9i

Fig. 9h

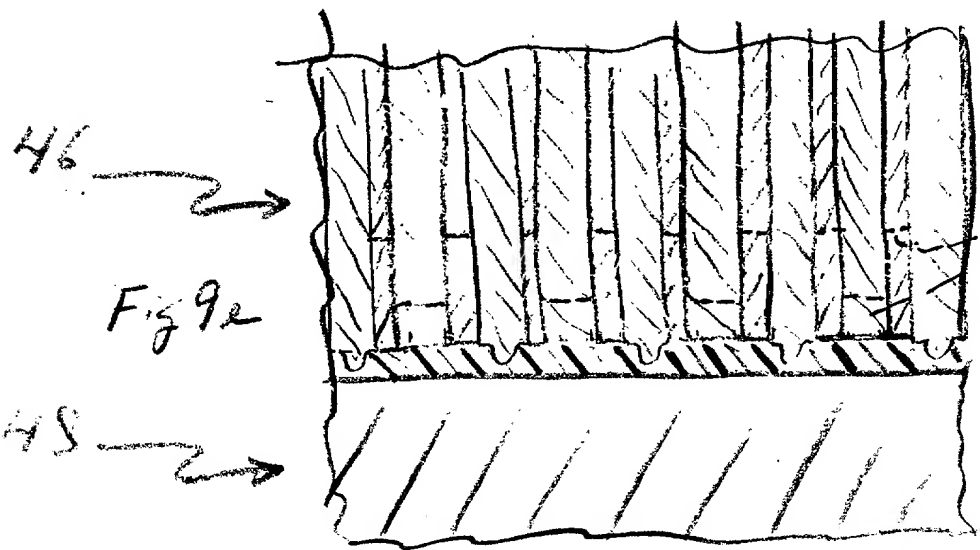
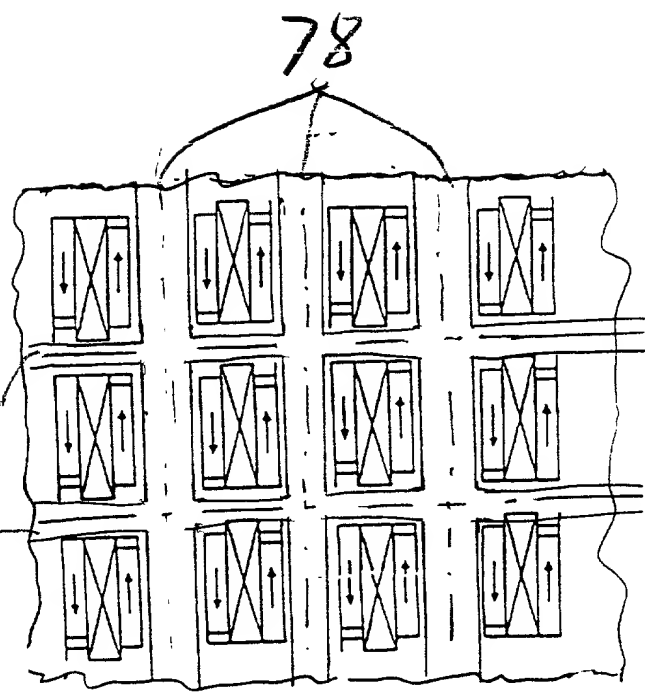


Fig 9e

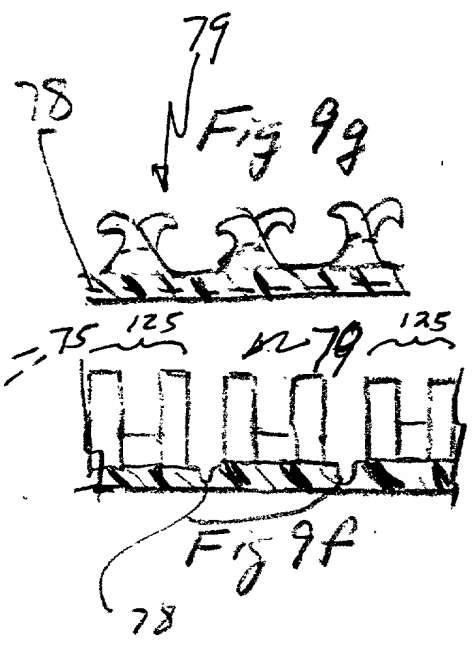


Fig 9g

Fig 9f

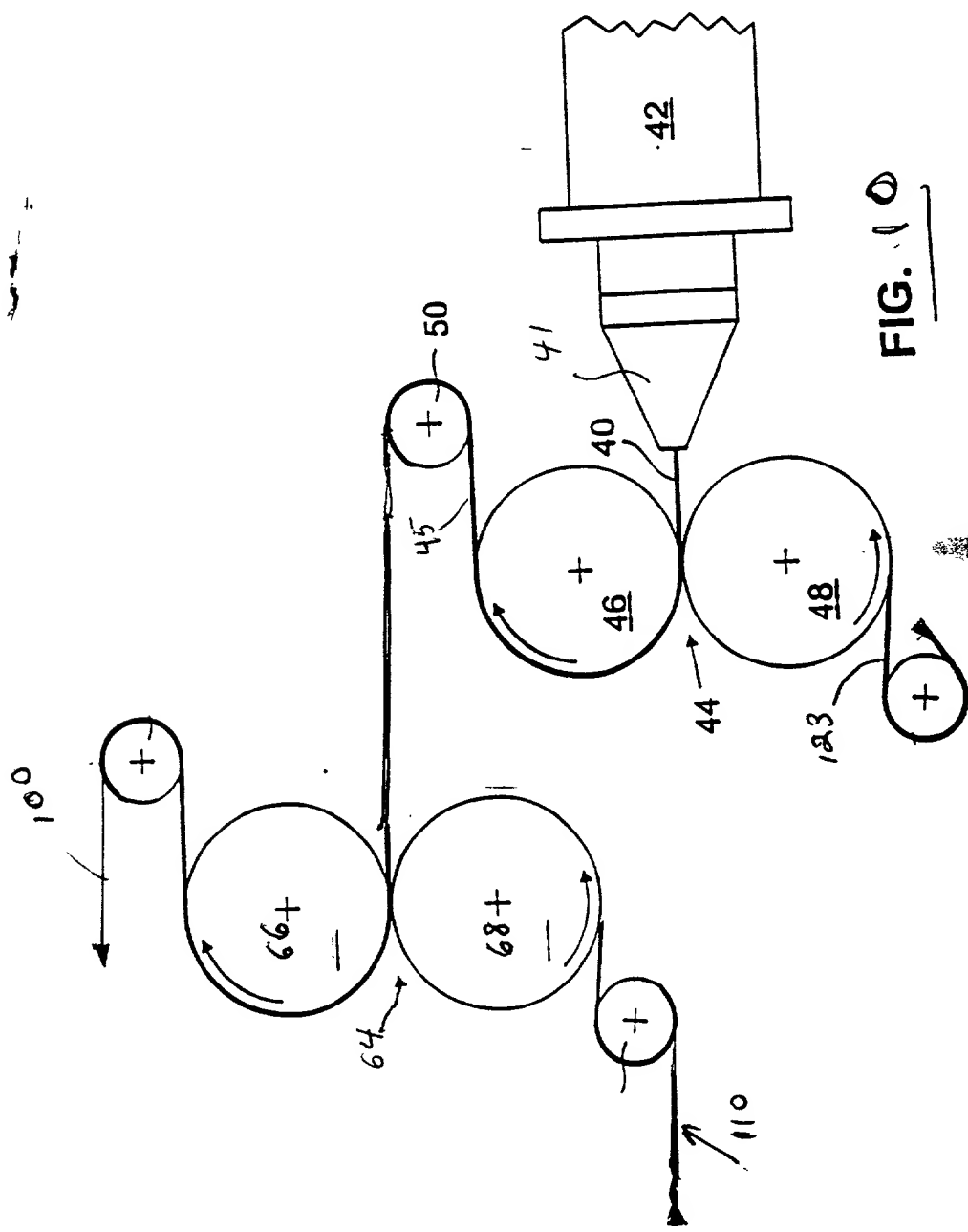
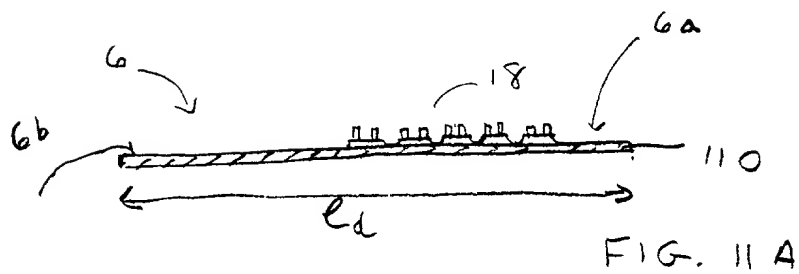
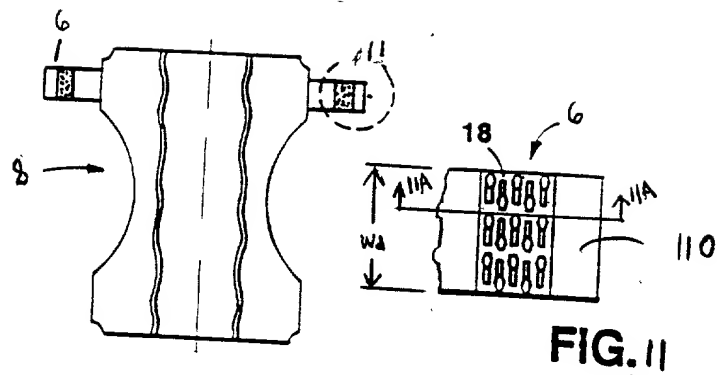
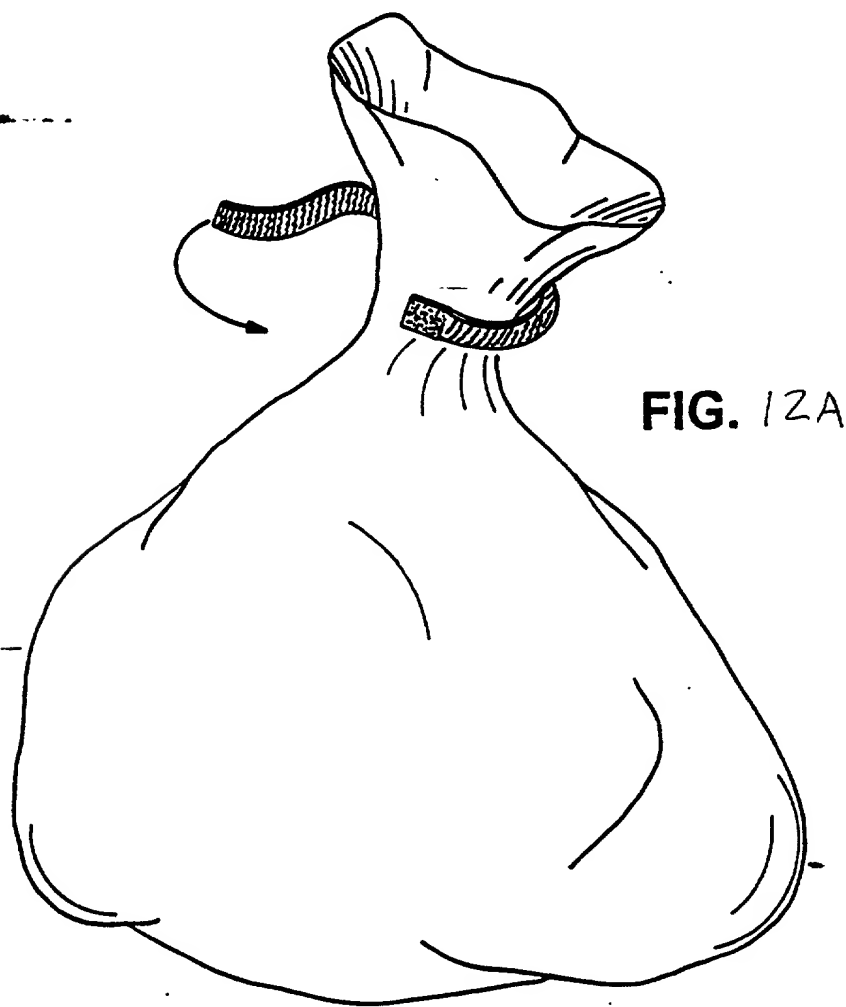
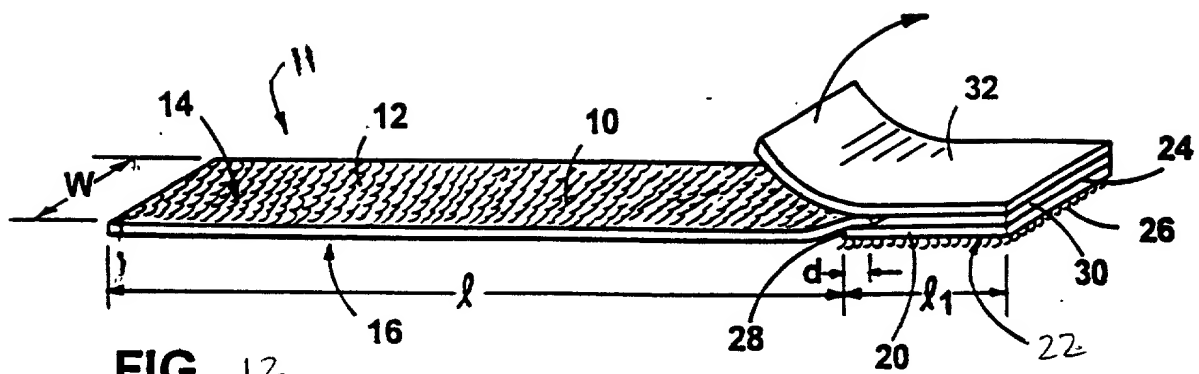


FIG. 10





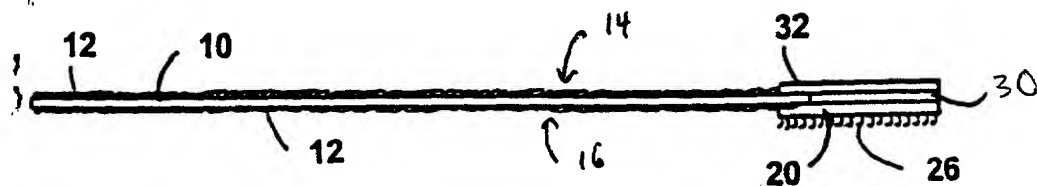


FIG. 12B

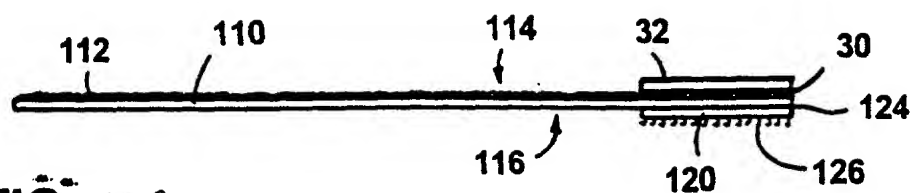


FIG. 12C

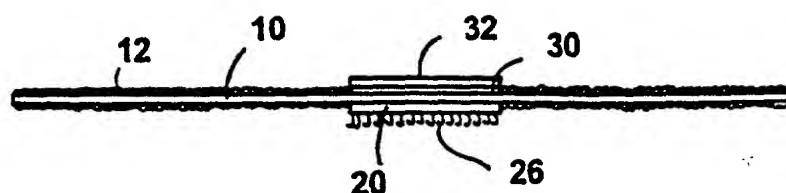


FIG. 12D

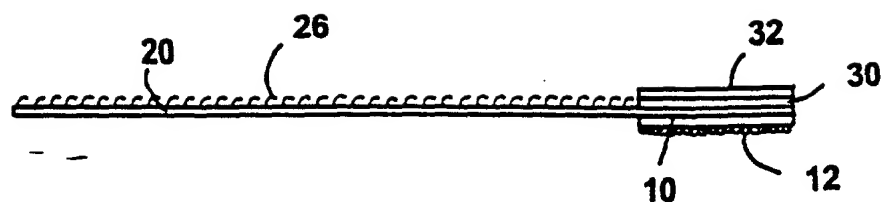


FIG. 12E

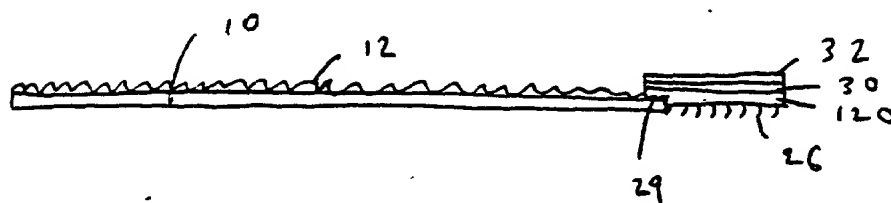


FIG. 12F

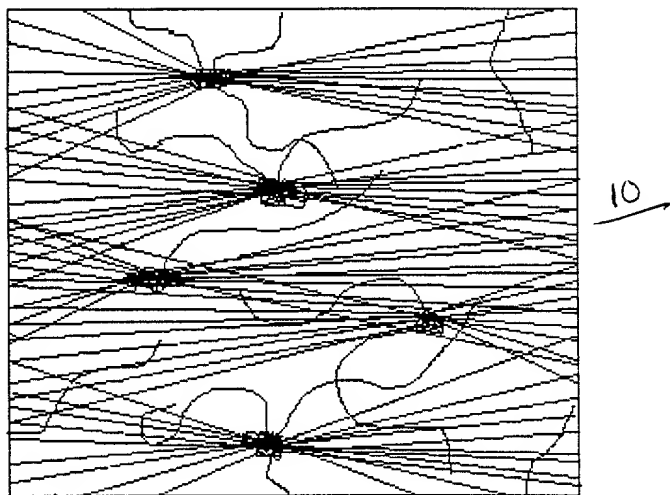


FIG. 13A

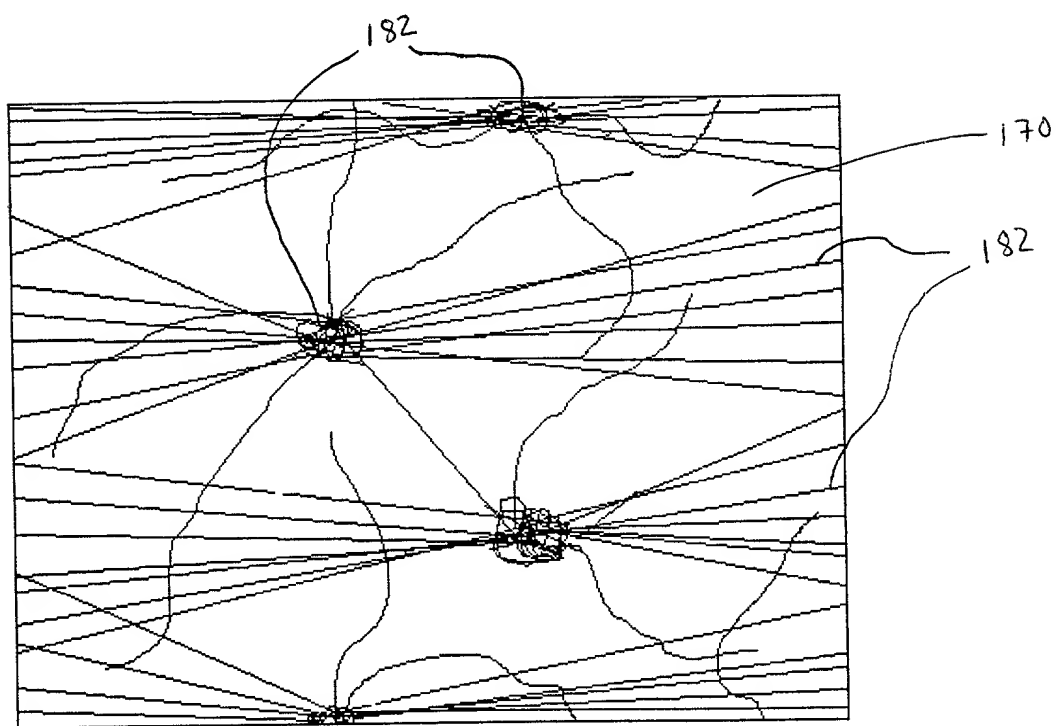


FIG. 13B

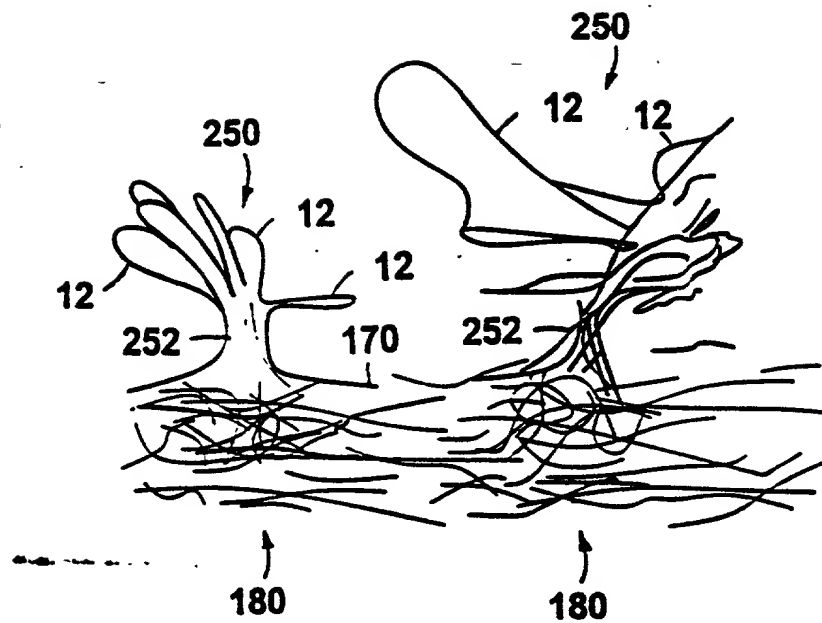


FIG. 13C

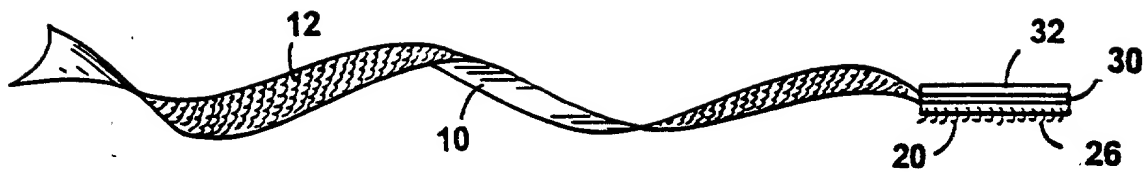


FIG. 14

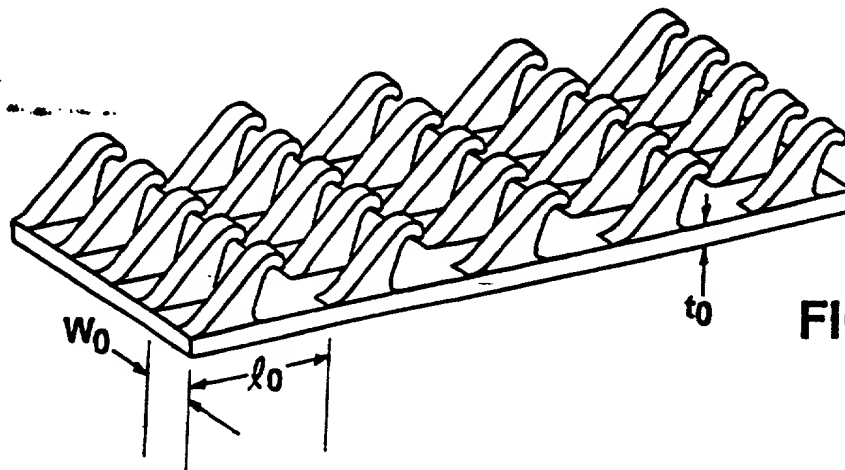


FIG. 15A

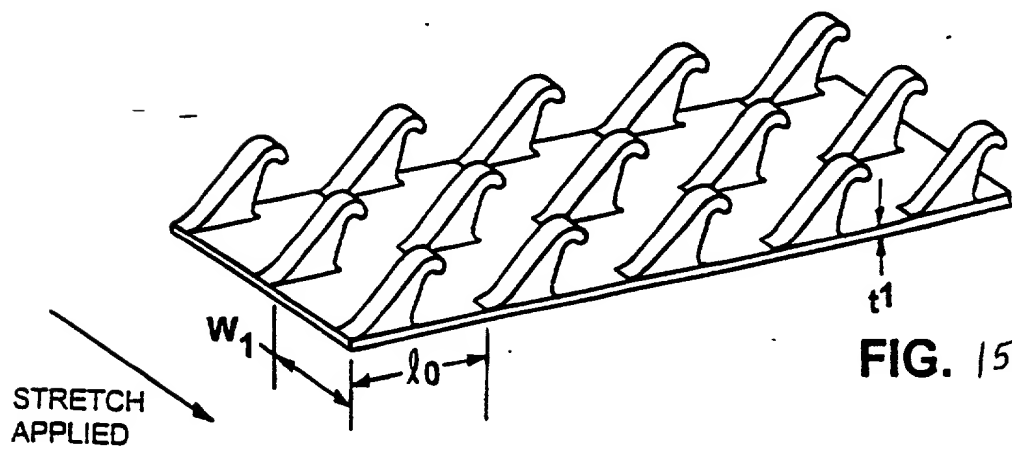


FIG. 15B

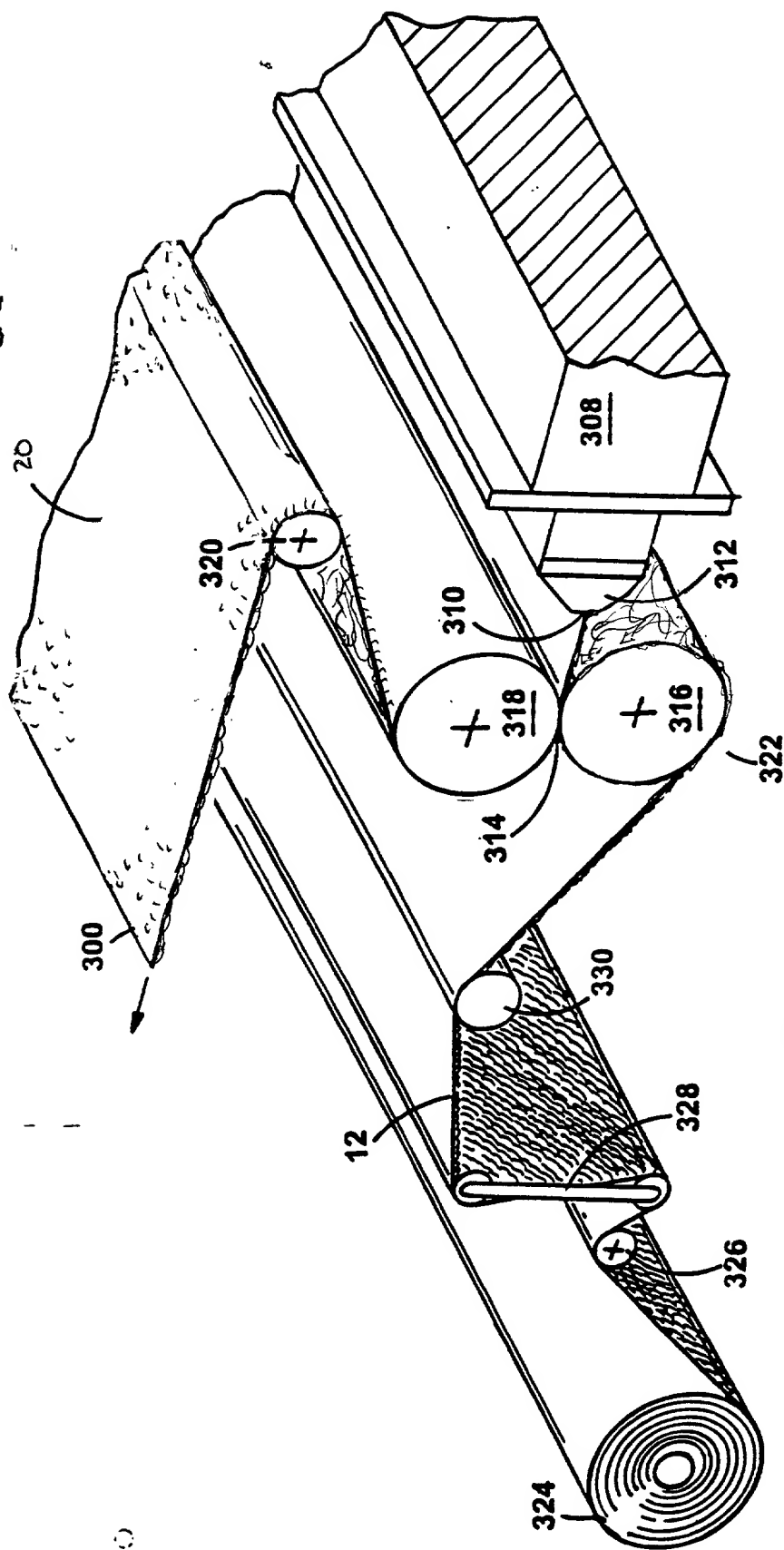


FIG. 16

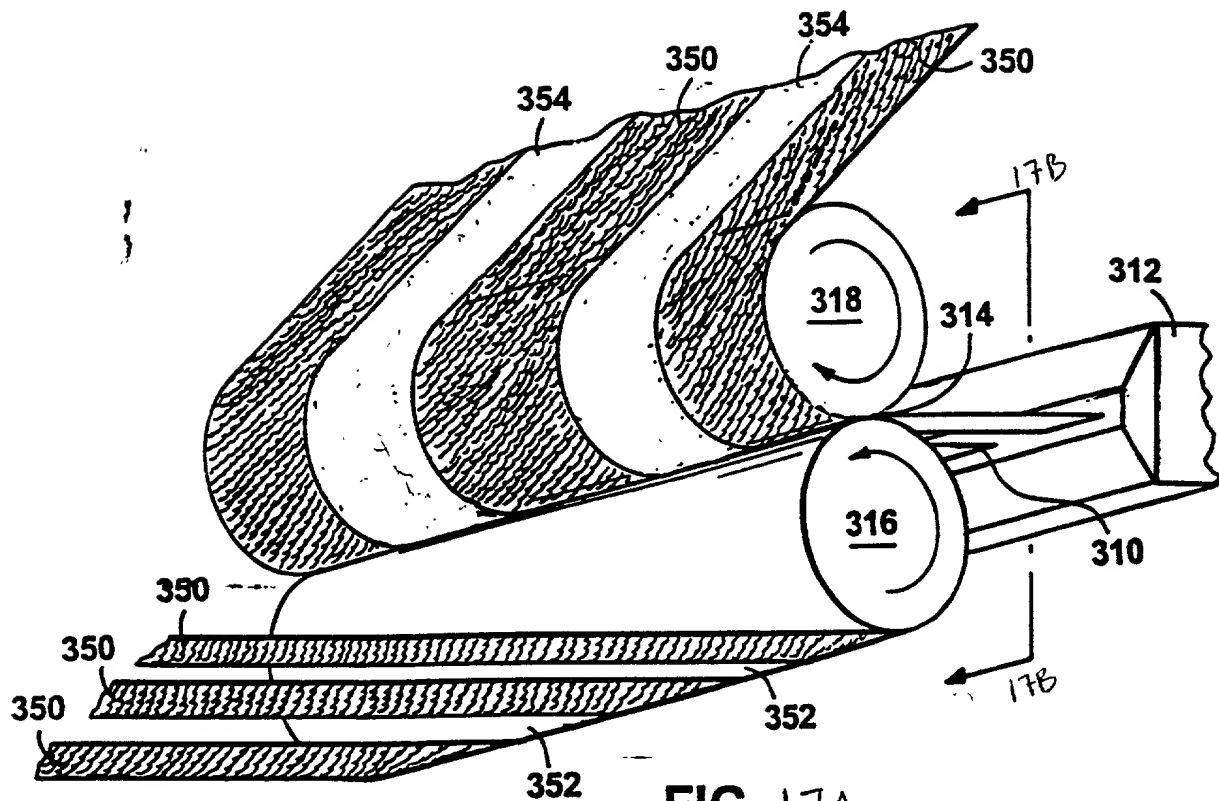


FIG. 17A

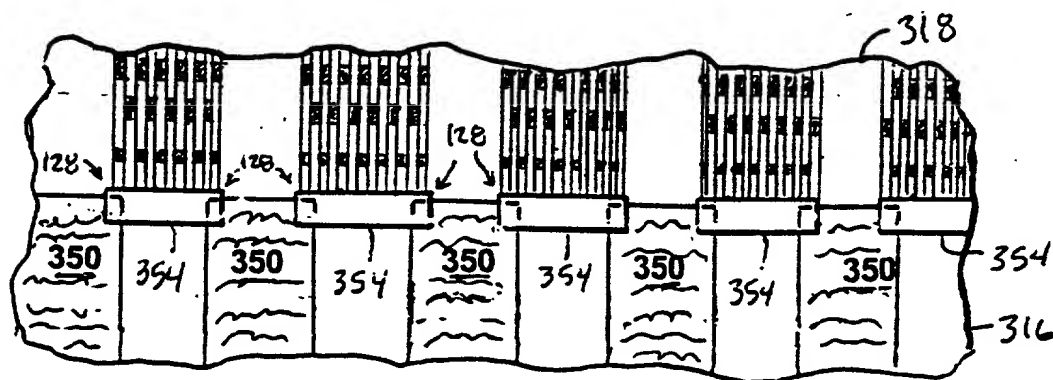


FIG. 17B

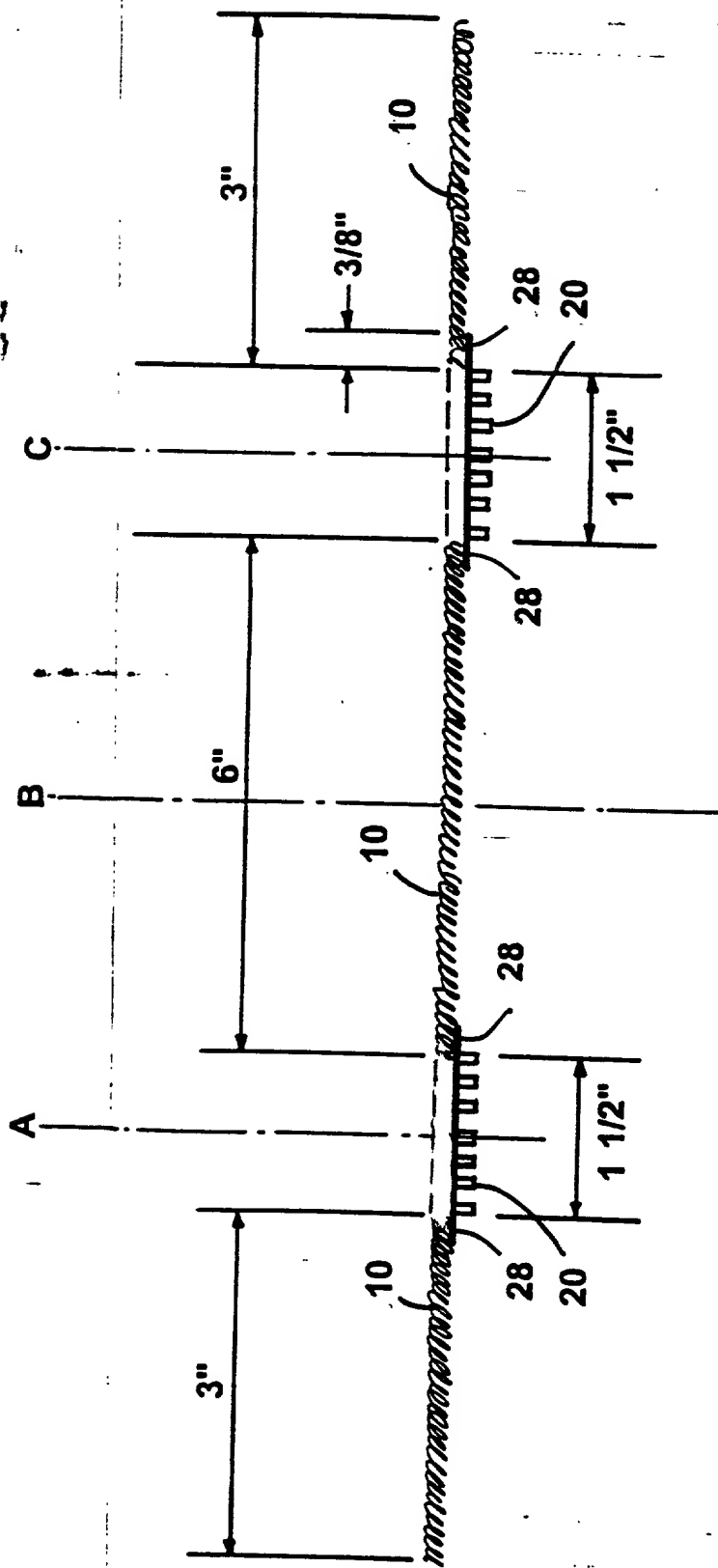


FIG. 18

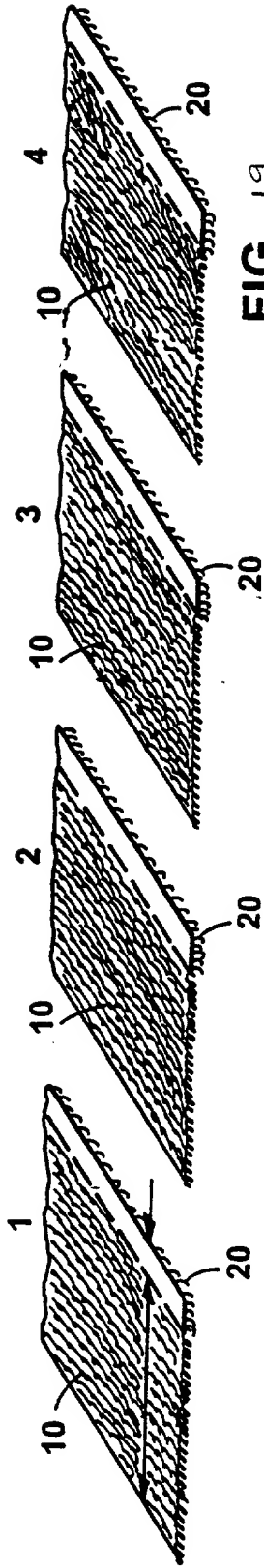


FIG. 19

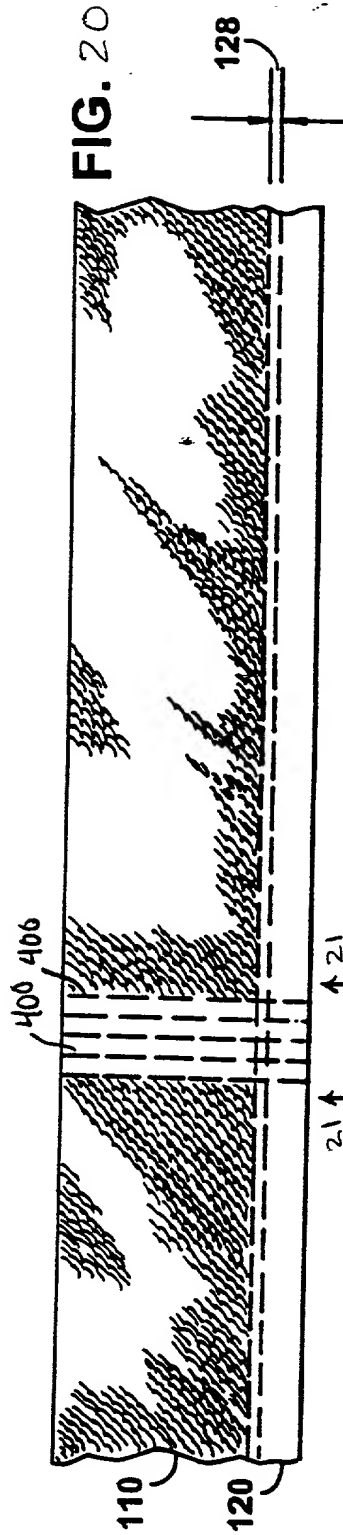


FIG. 20

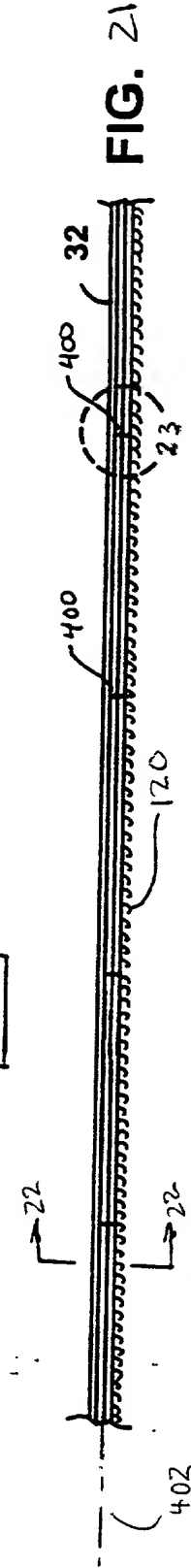


FIG. 21

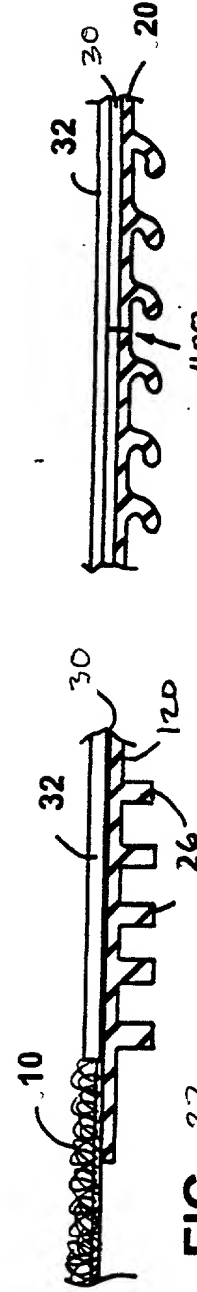


FIG. 22

FIG. 23

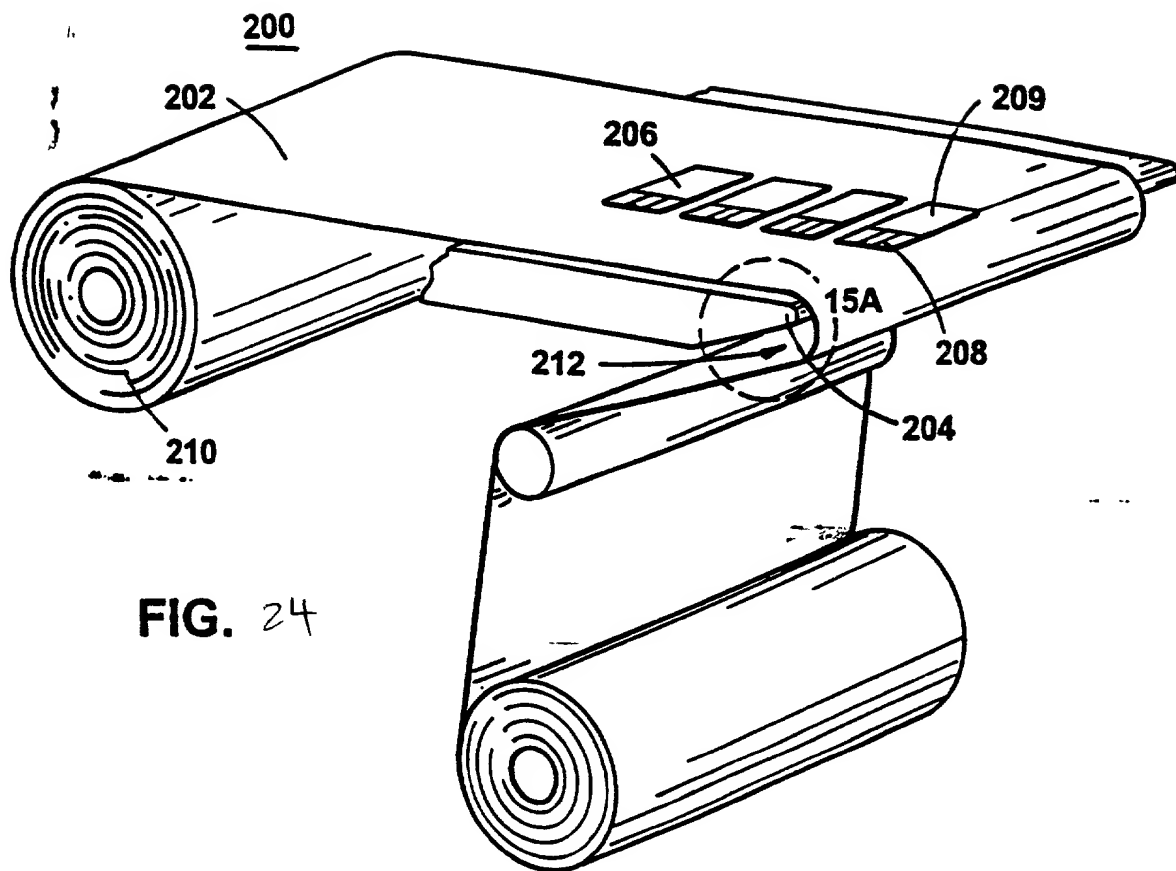


FIG. 24

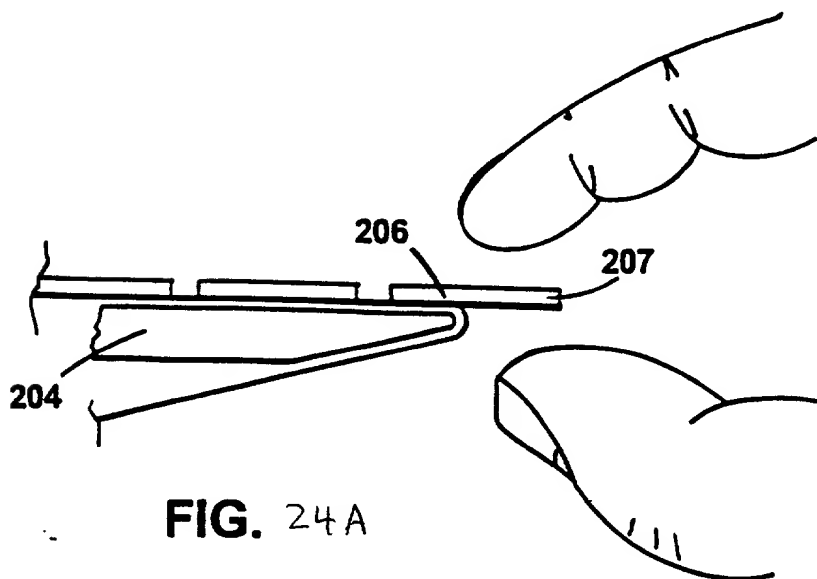


FIG. 24A

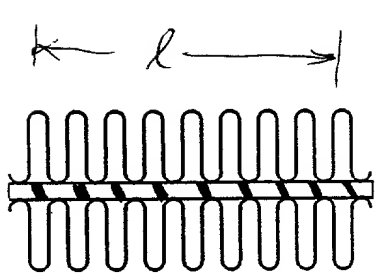


FIG. 25

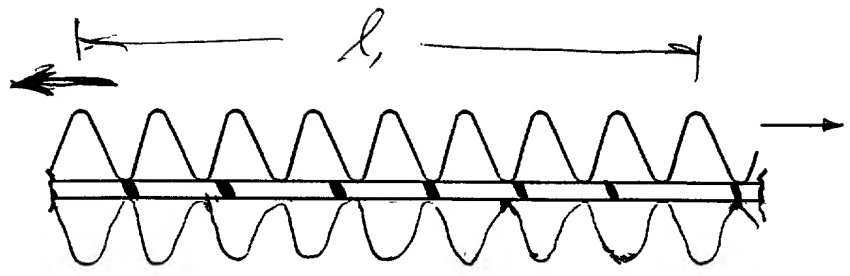


FIG 25 A

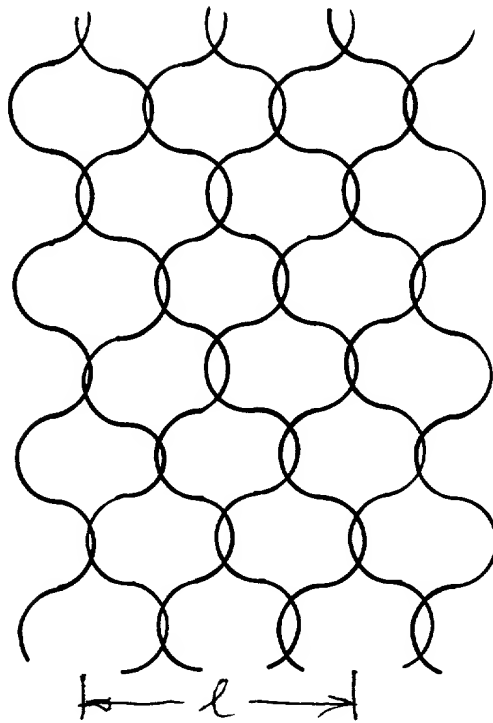


FIG. 26

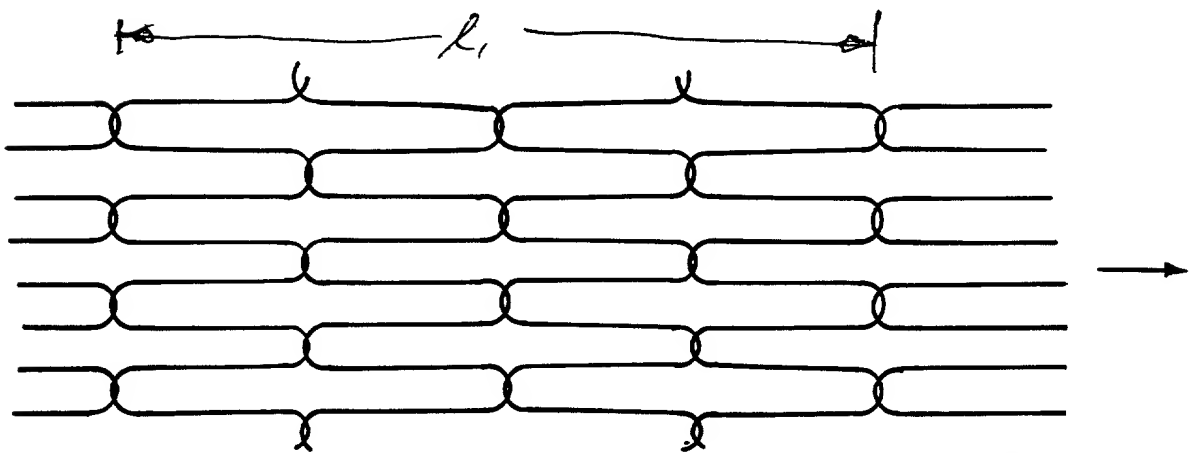


FIG. 26A

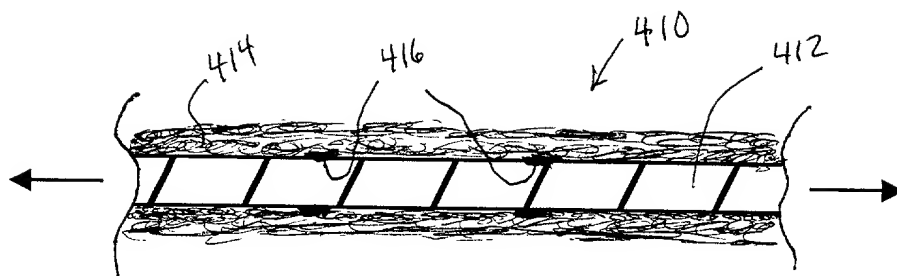


FIG. 27

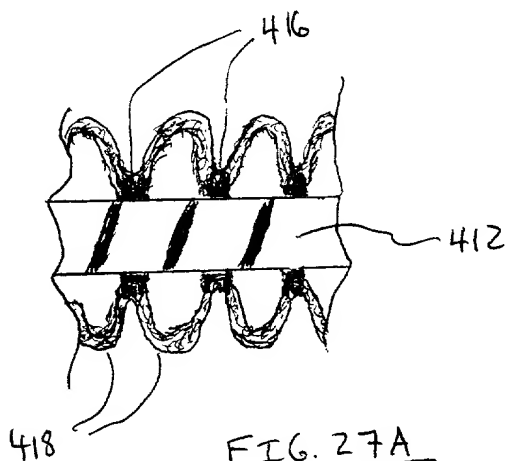


FIG. 27A

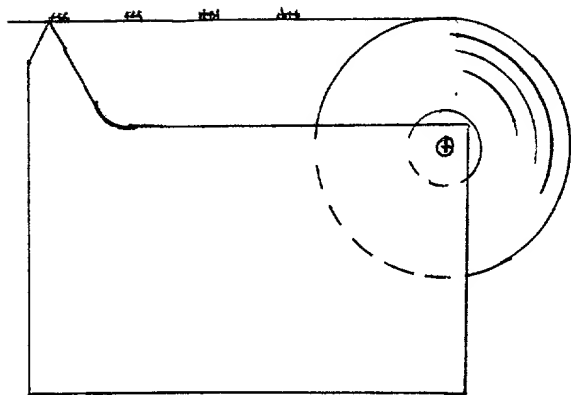


FIG. 30C

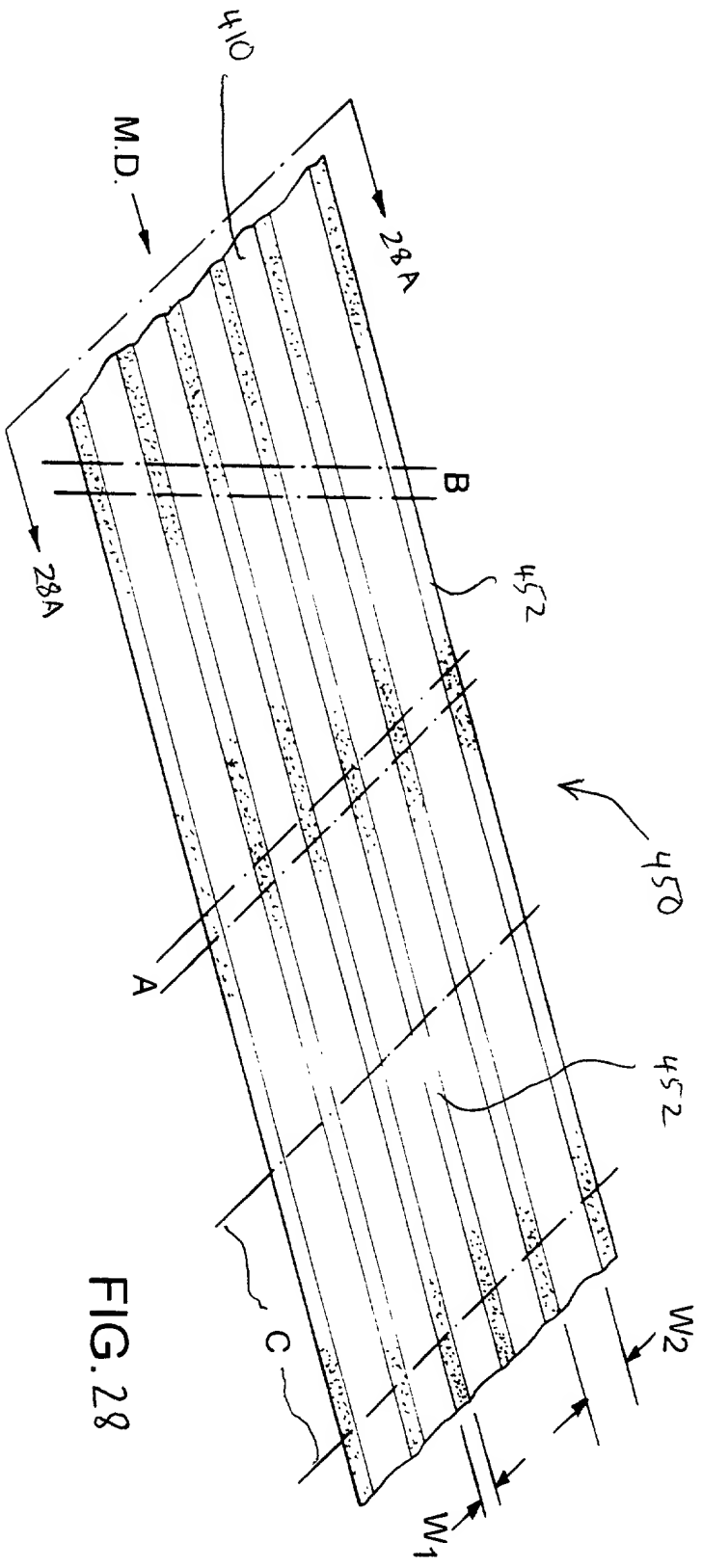


FIG. 28

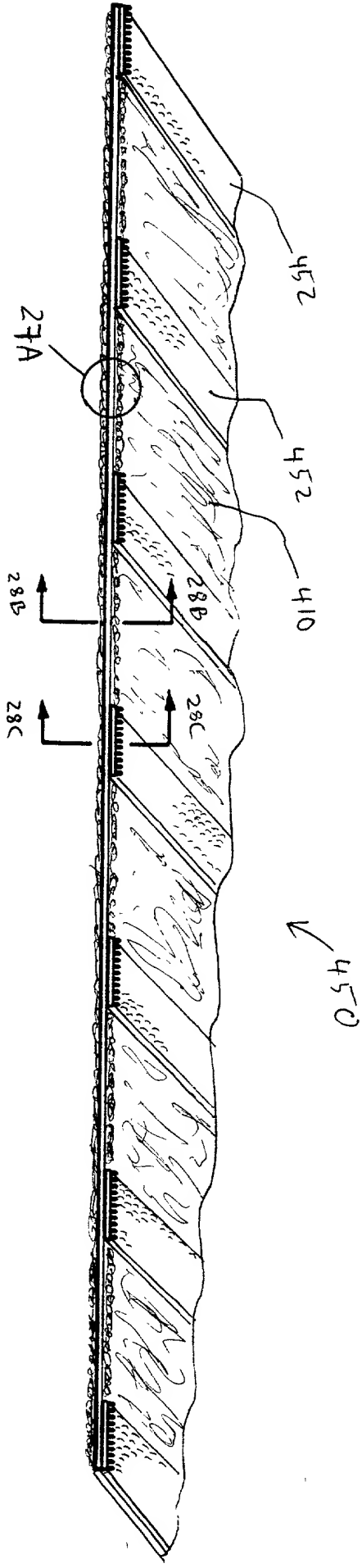


FIG. 28A

FIG. 28A is a cross-sectional view of the assembly 450 along line A-A of FIG. 28. The assembly 450 includes a plurality of layers 452 and 410. The layers 452 are separated by the layers 410. The assembly 450 is shown in a perspective view in FIG. 28. The cross-sectional view of FIG. 28A shows the internal structure of the assembly 450. The circular feature 27A is located on the left side of the assembly 450. The arrows 28B and 28C point to the interfaces between the layers 452 and 410. The entire assembly 450 is shown within a larger frame.

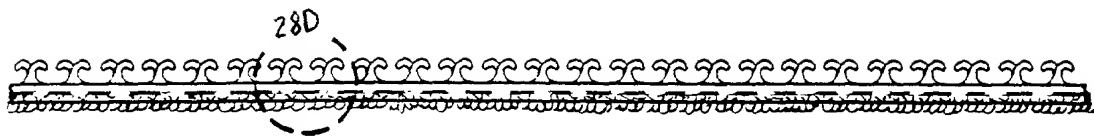


FIG. 28B

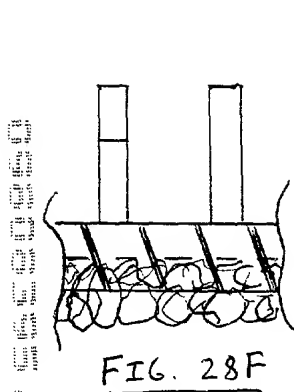


FIG. 28F

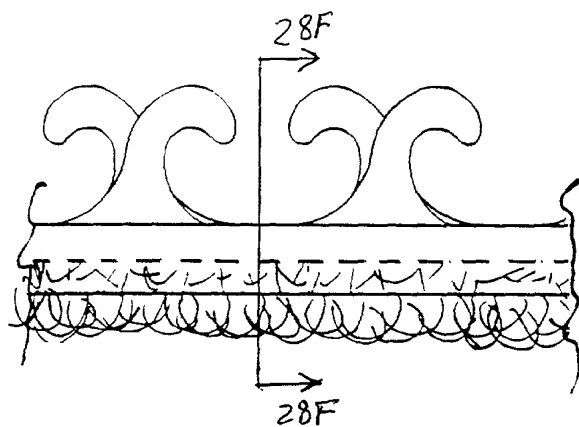


FIG. 28D

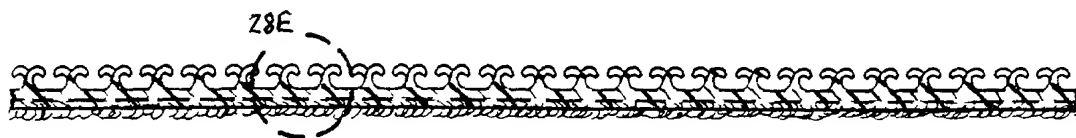


FIG. 28C

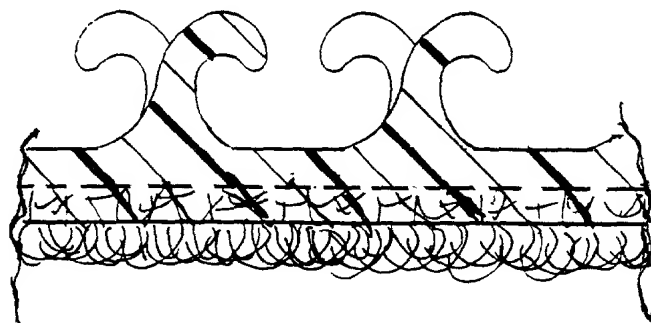


FIG. 28E

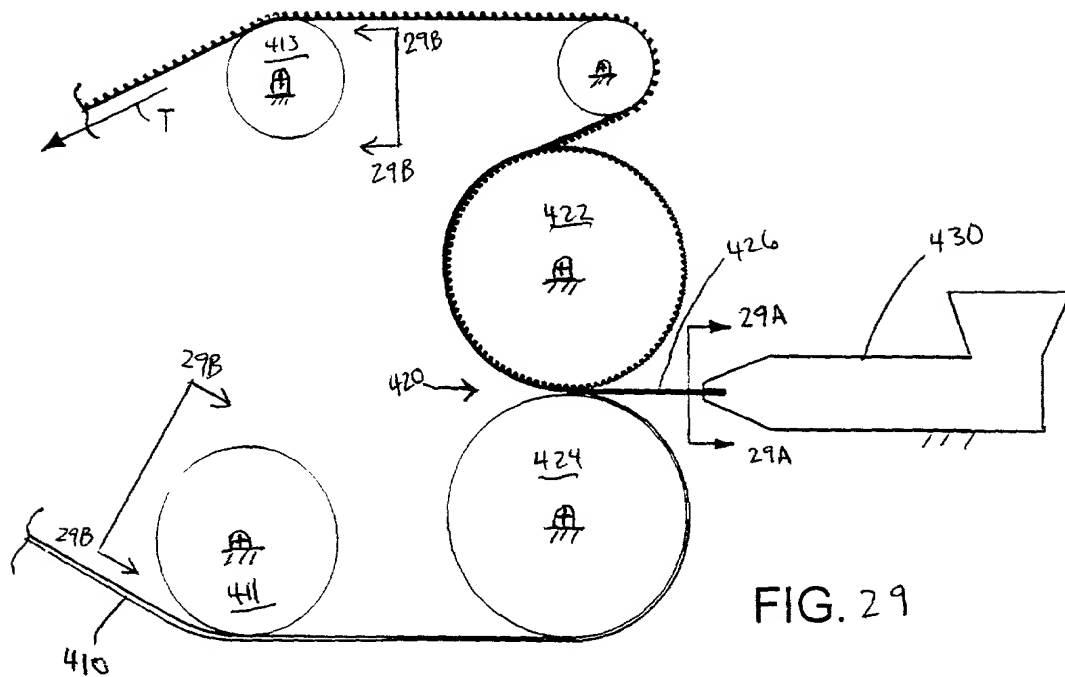


FIG. 29

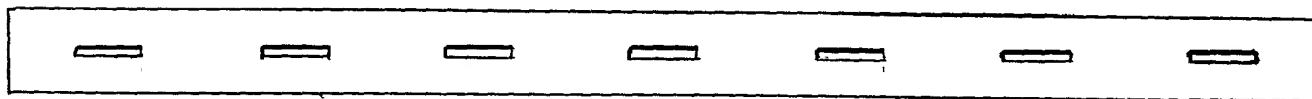


FIG. 29A

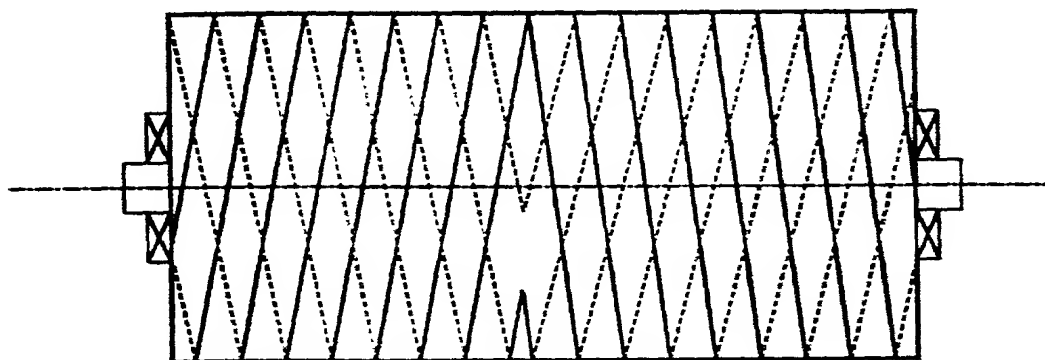


FIG. 29B



FIG. 31 is a perspective view of a catheter assembly 300 in a retracted position. The catheter assembly 300 includes a handle 310, a shaft 320, and a catheter tip 330. The handle 310 is connected to the shaft 320, and the shaft 320 is connected to the catheter tip 330. The catheter tip 330 is shown in a retracted position, exposing a lumen 340. The handle 310 includes a control knob 350 and a trigger 360. The shaft 320 includes a proximal end 370 and a distal end 380. The catheter tip 330 includes a proximal end 390 and a distal end 400. The lumen 340 is defined by an inner wall 410 and an outer wall 420. The handle 310 is connected to the shaft 320 at a proximal end 430. The shaft 320 is connected to the catheter tip 330 at a distal end 440. The catheter tip 330 is shown in a retracted position, exposing the lumen 340. The handle 310 includes a control knob 350 and a trigger 360. The shaft 320 includes a proximal end 370 and a distal end 380. The catheter tip 330 includes a proximal end 390 and a distal end 400. The lumen 340 is defined by an inner wall 410 and an outer wall 420. The handle 310 is connected to the shaft 320 at a proximal end 430. The shaft 320 is connected to the catheter tip 330 at a distal end 440. The catheter tip 330 is shown in a retracted position, exposing the lumen 340.

FIG. 31

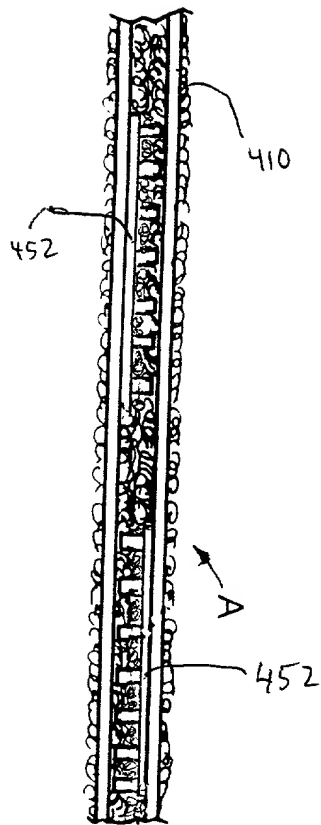
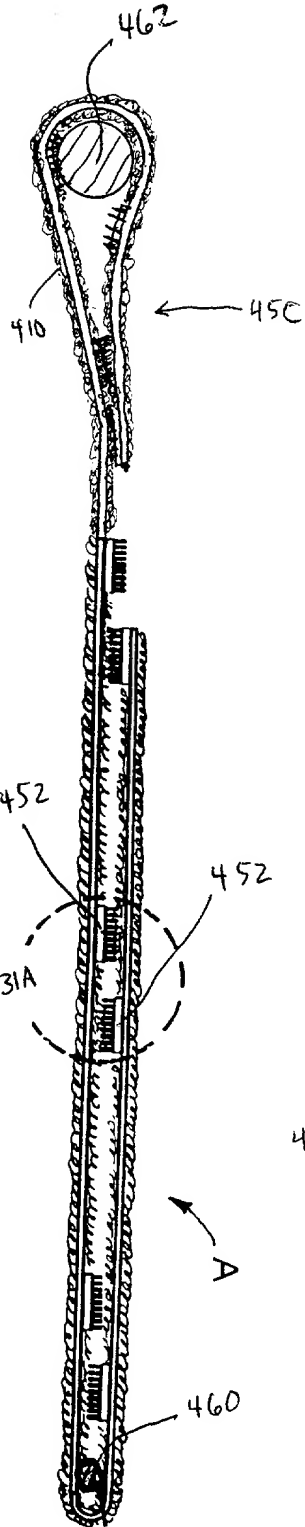


FIG. 31A

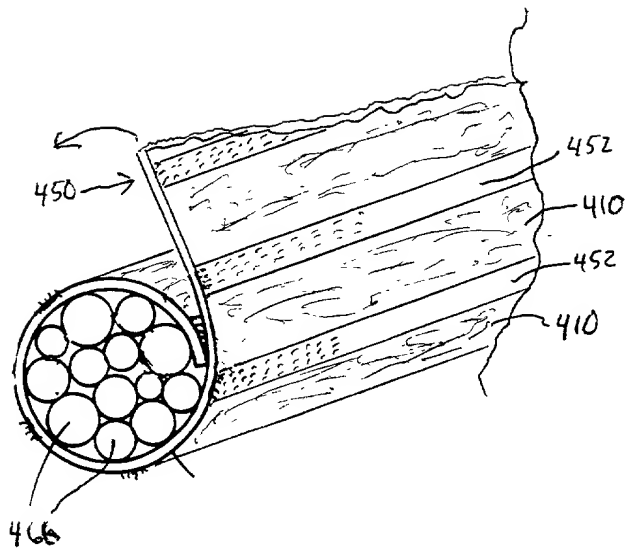


FIG. 32 A

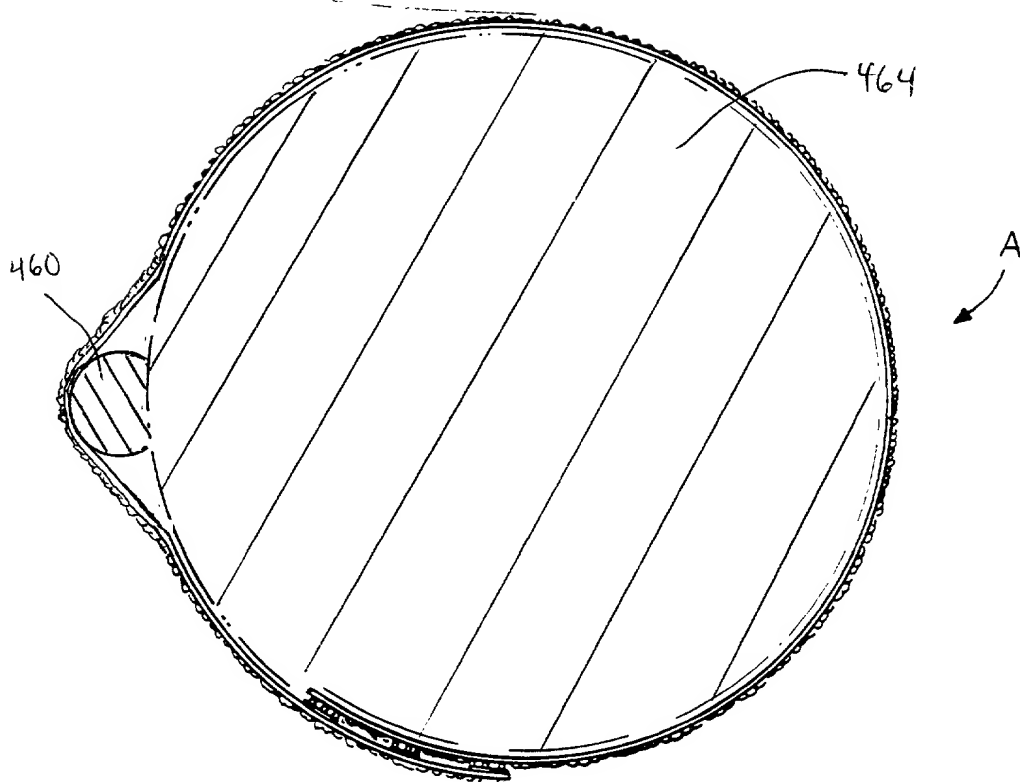


FIG. 32

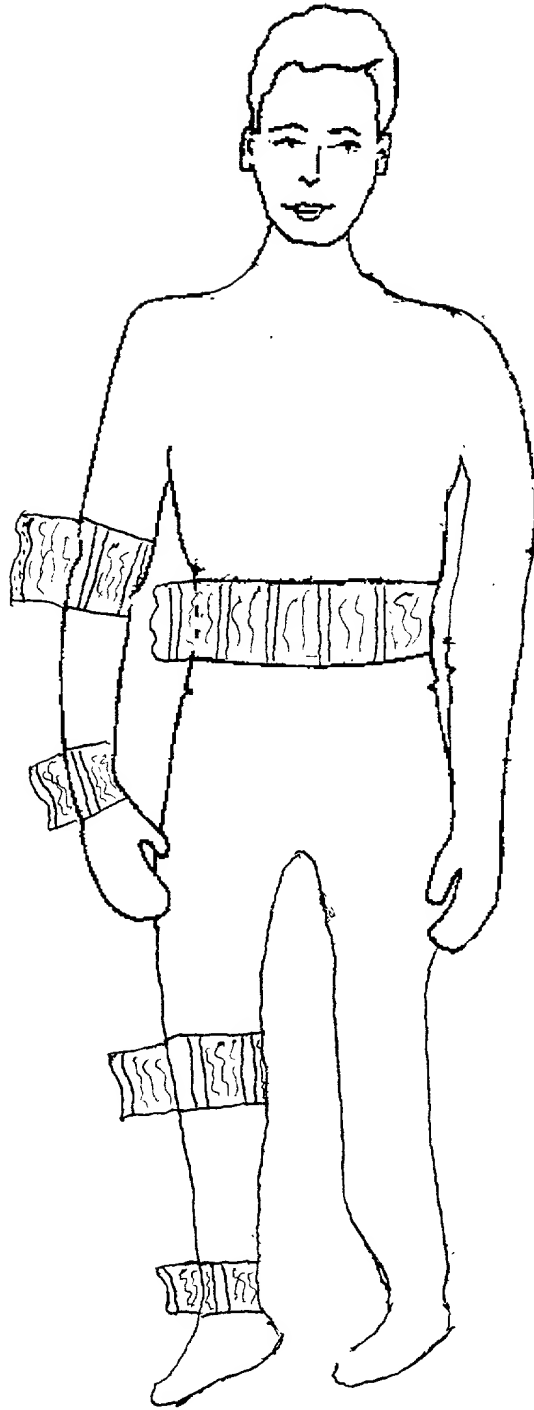


FIG. 33B

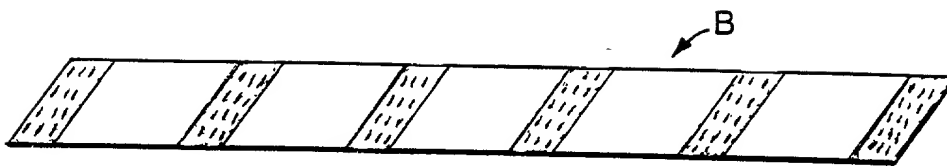


FIG. 34

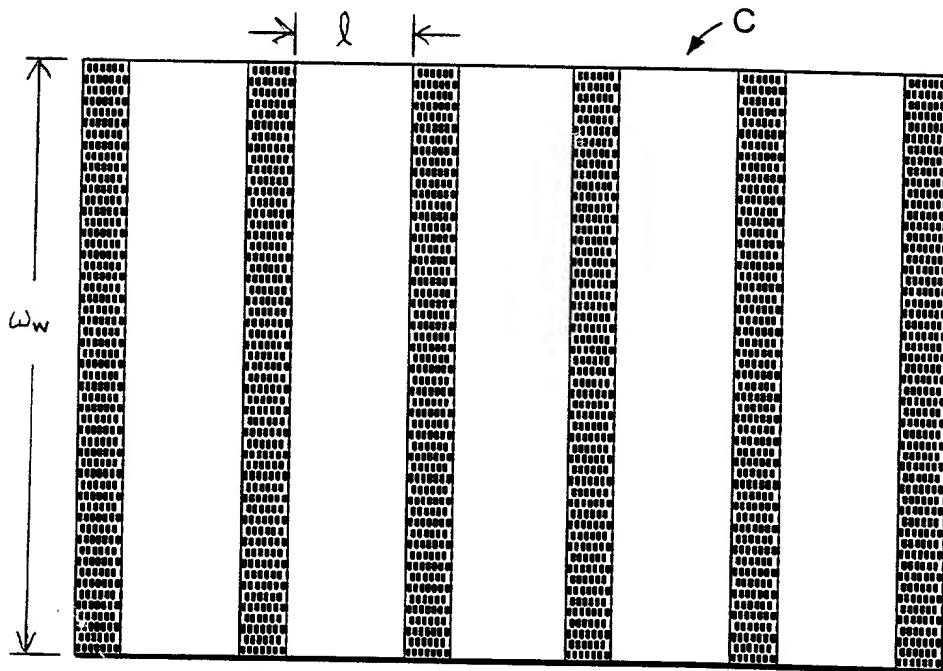


FIG. 33

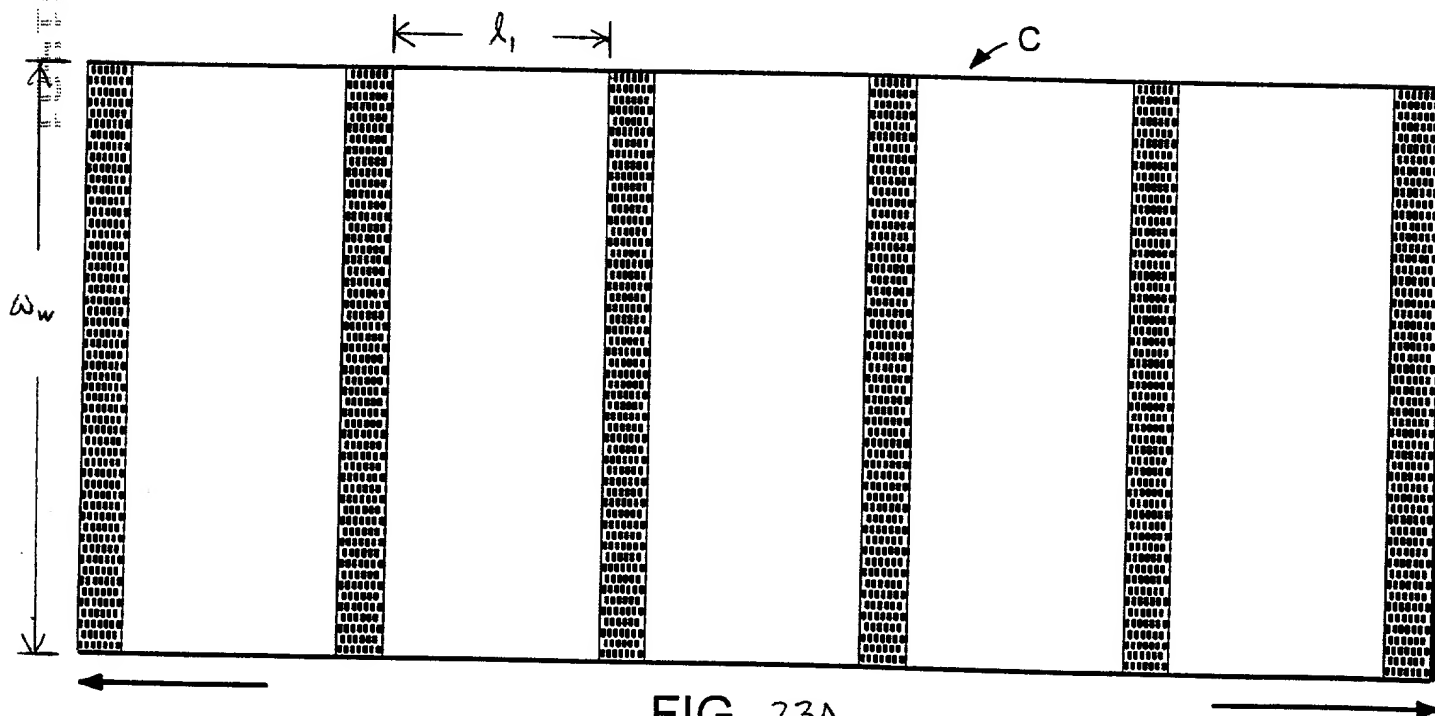
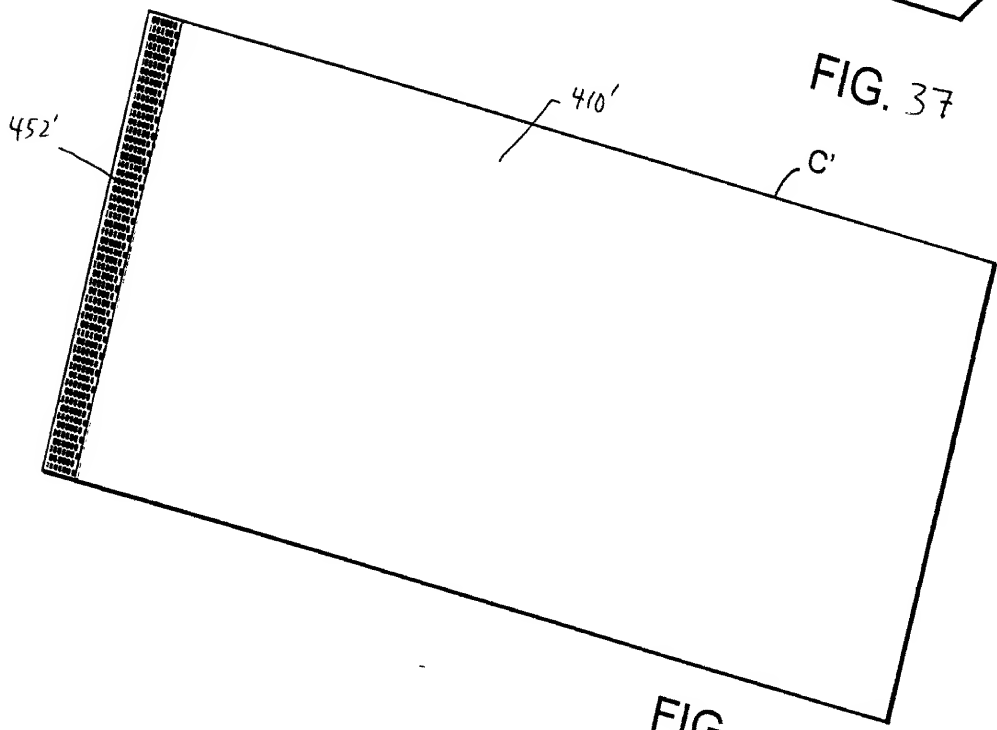
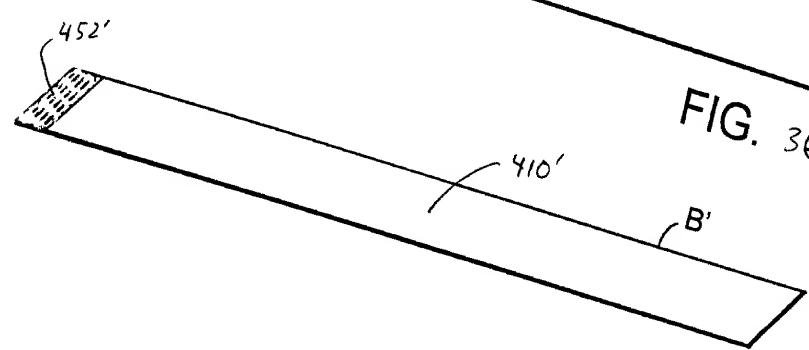
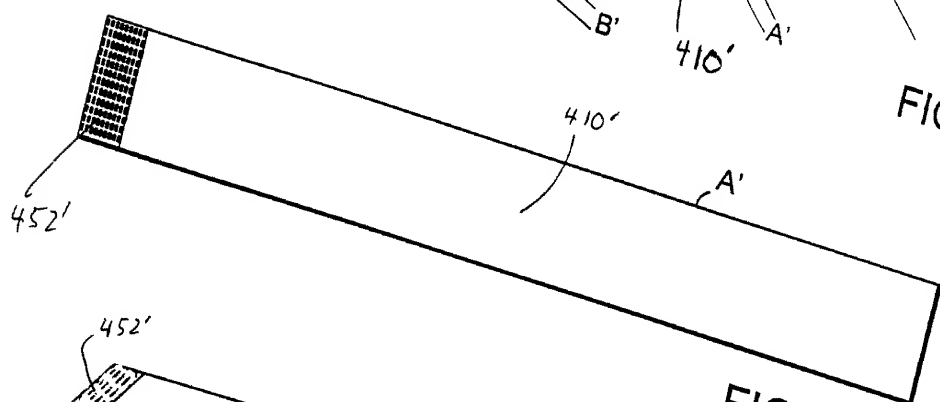
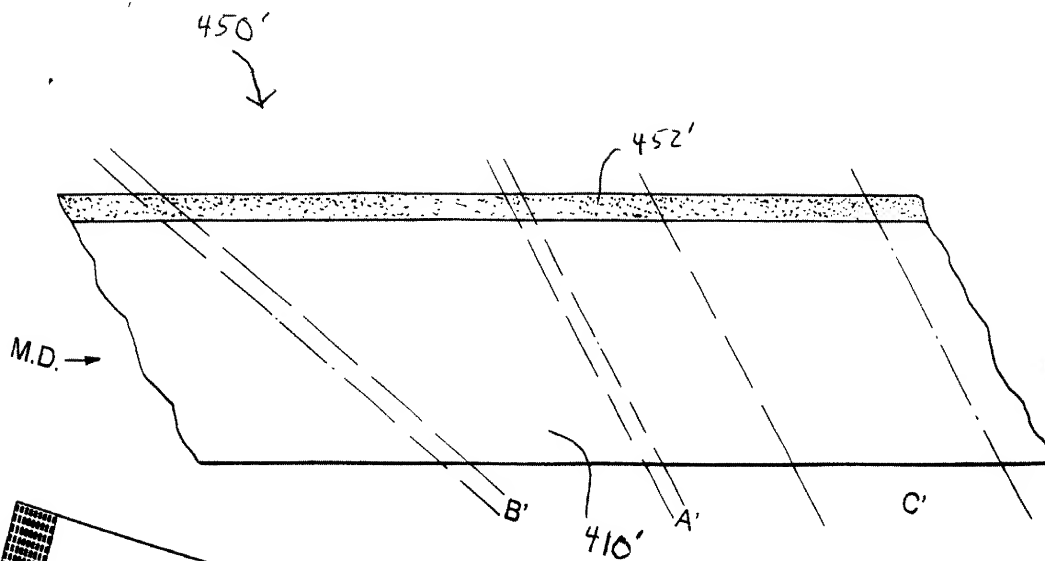


FIG. 33A



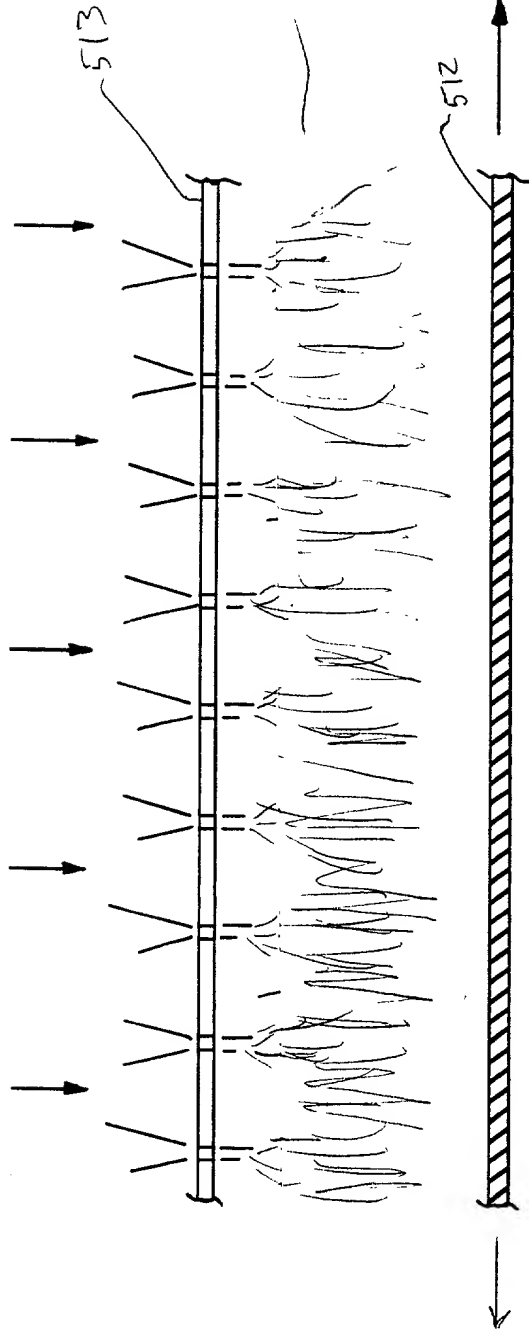


FIG. 40

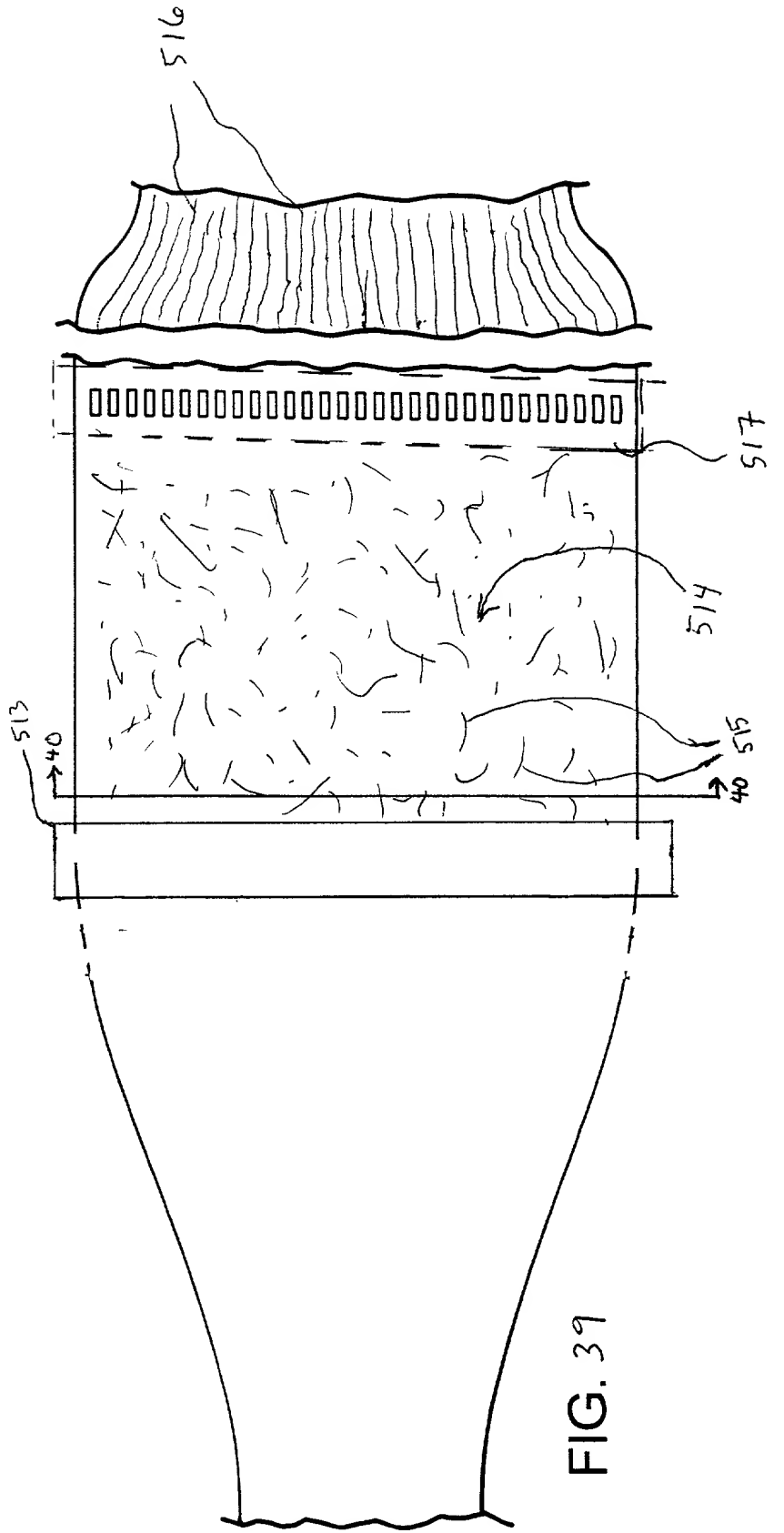


FIG. 39

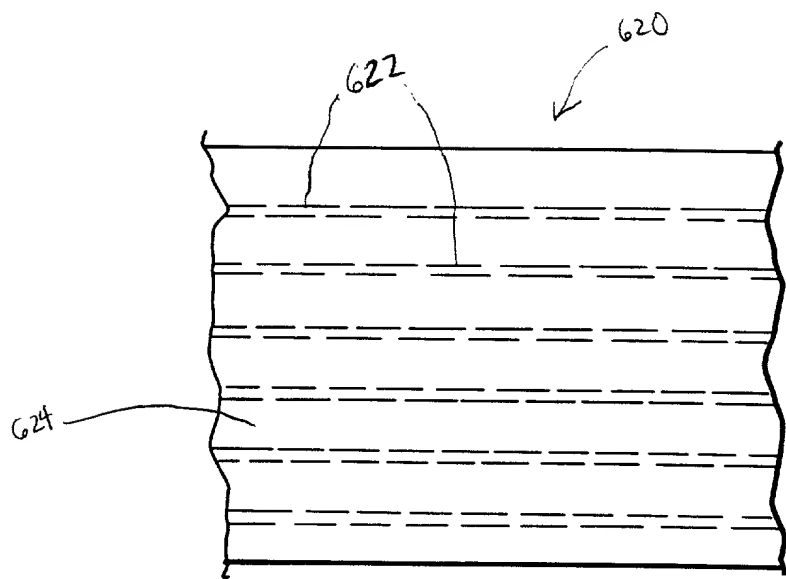


FIG. 42

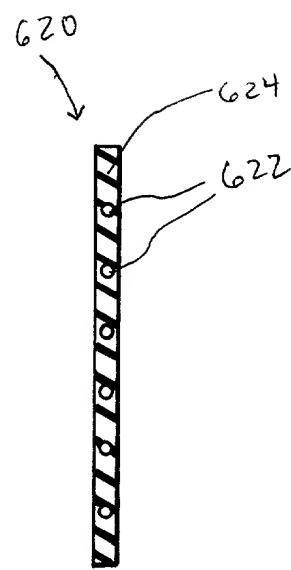


FIG. 41

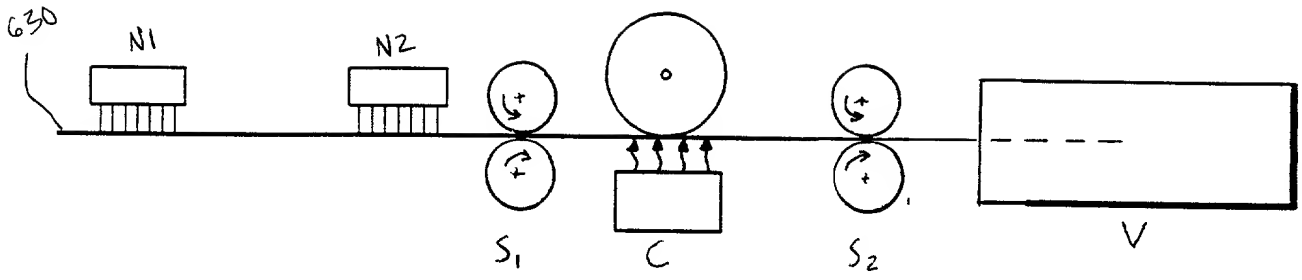


FIG. 43

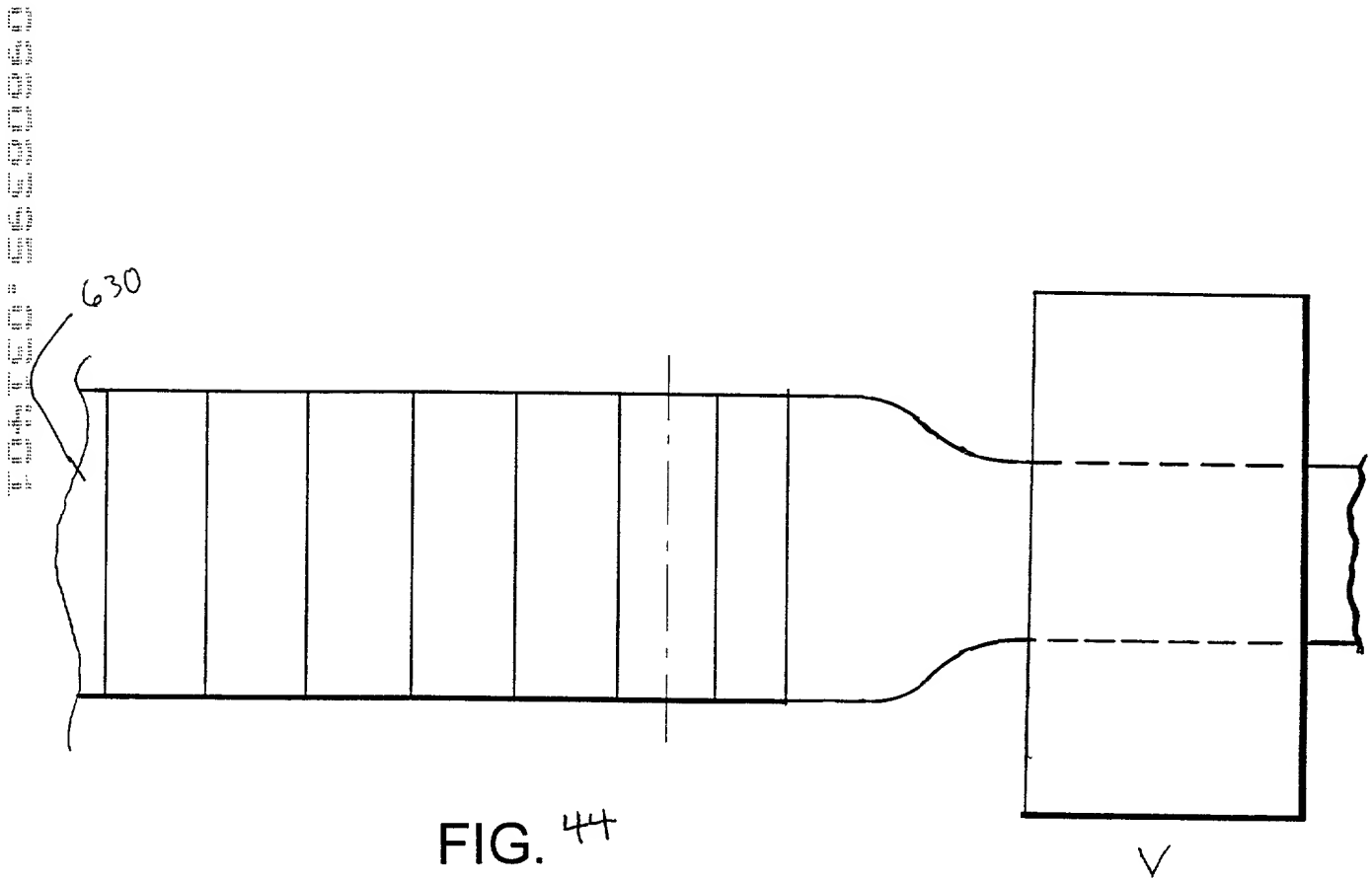
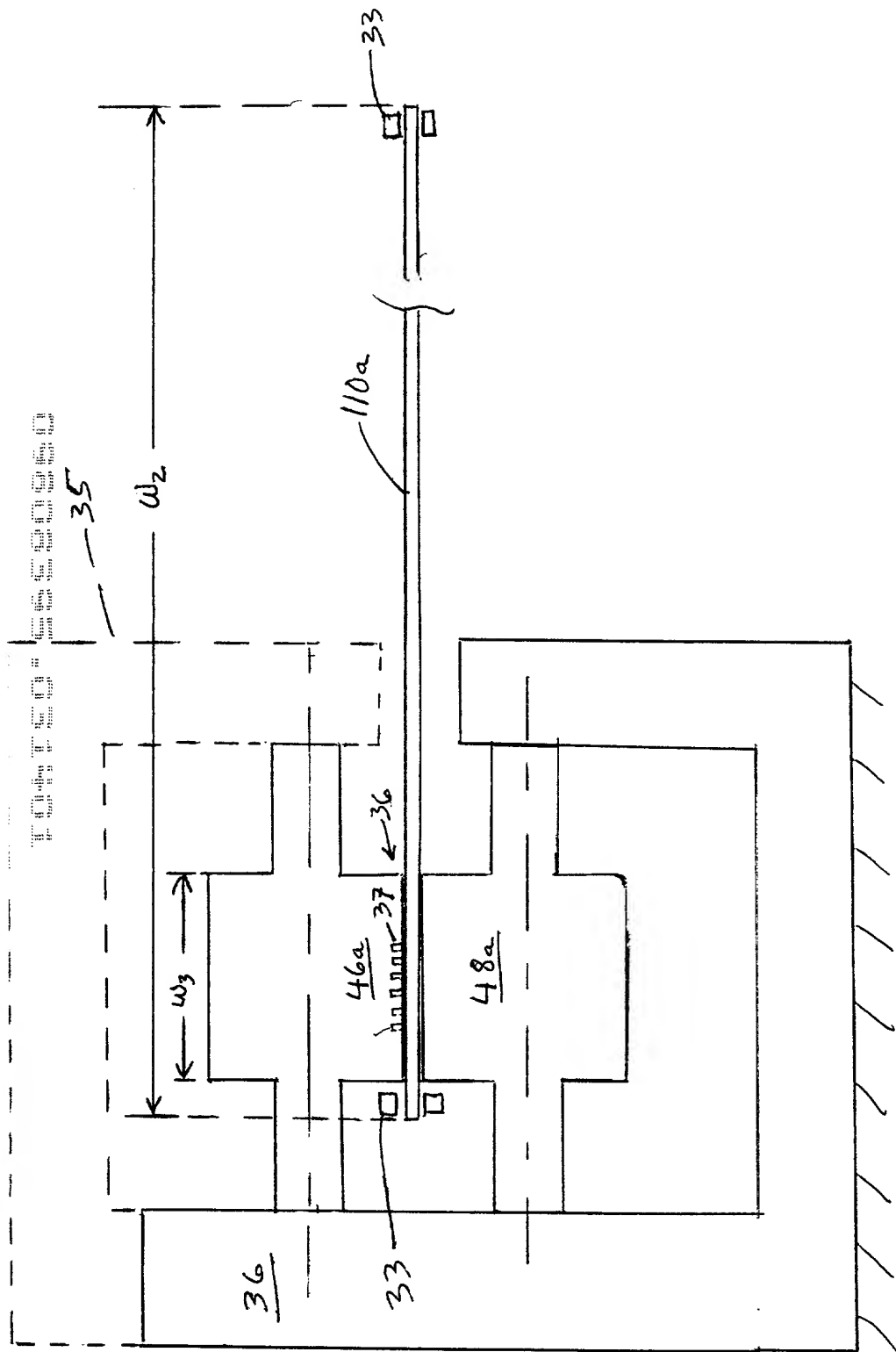
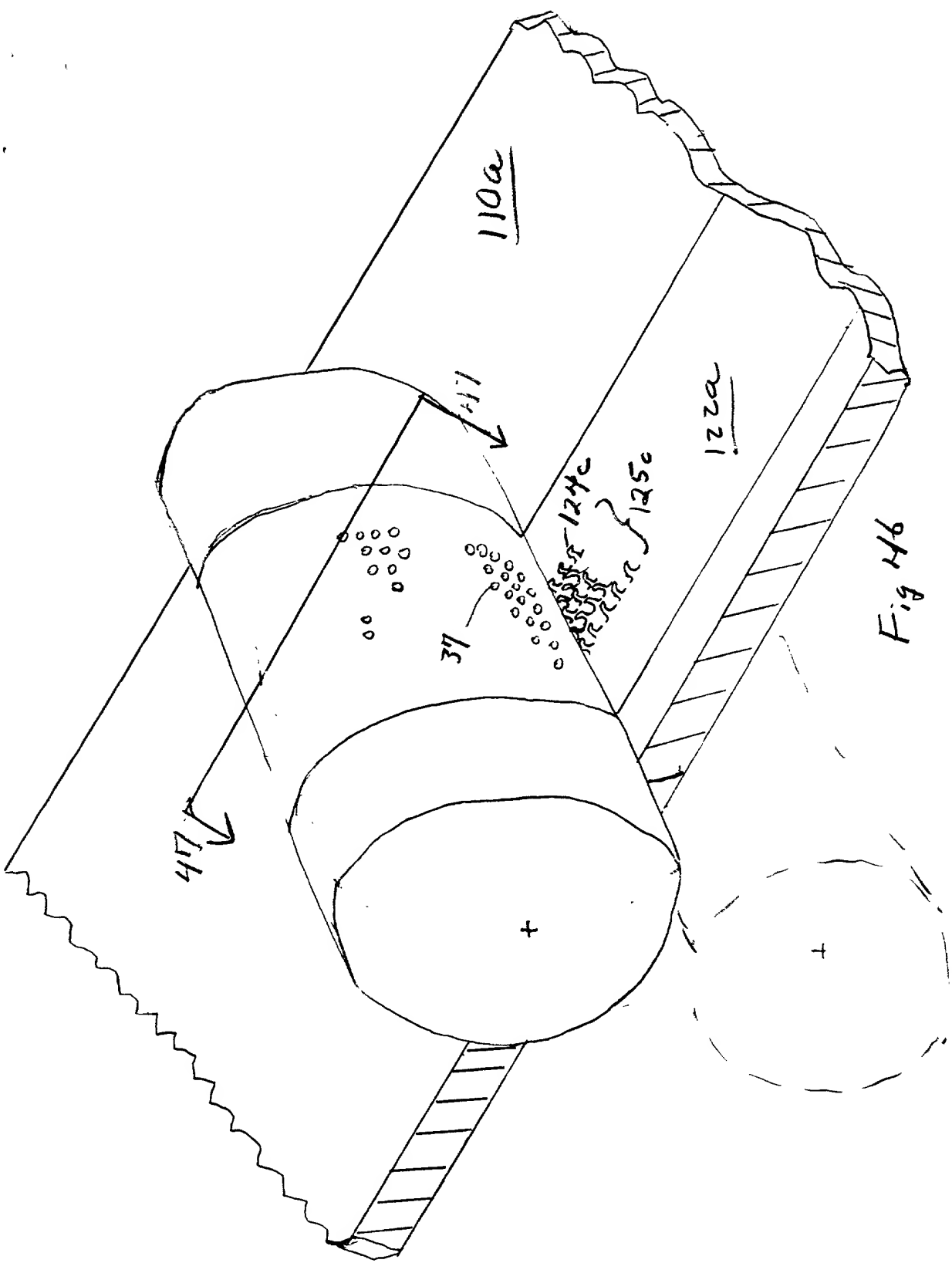


FIG. 44





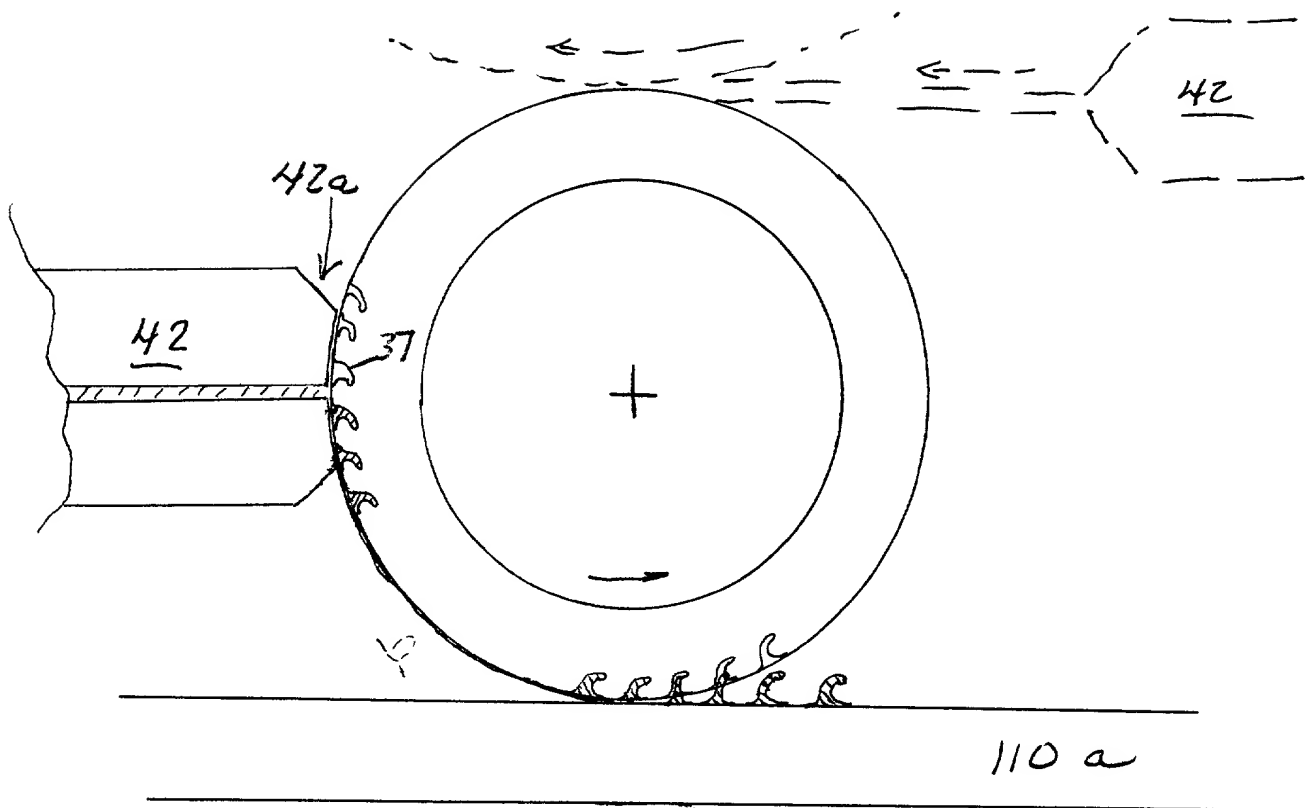


Fig 47